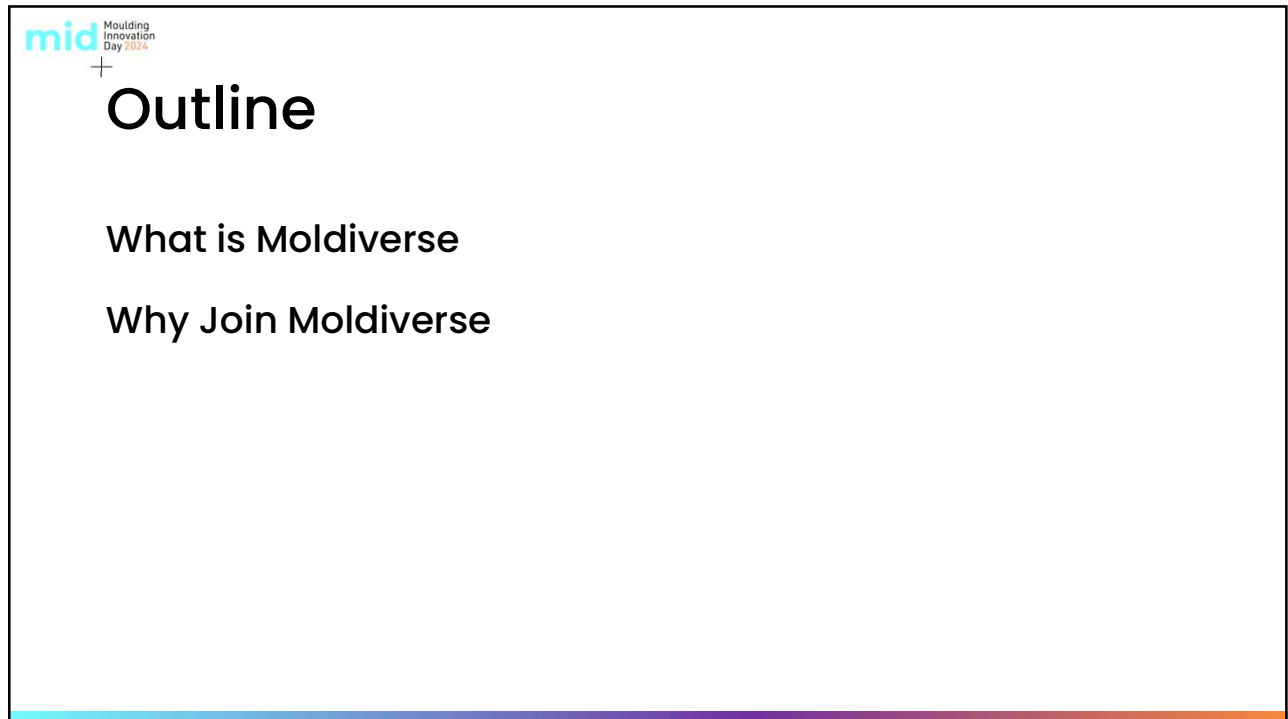
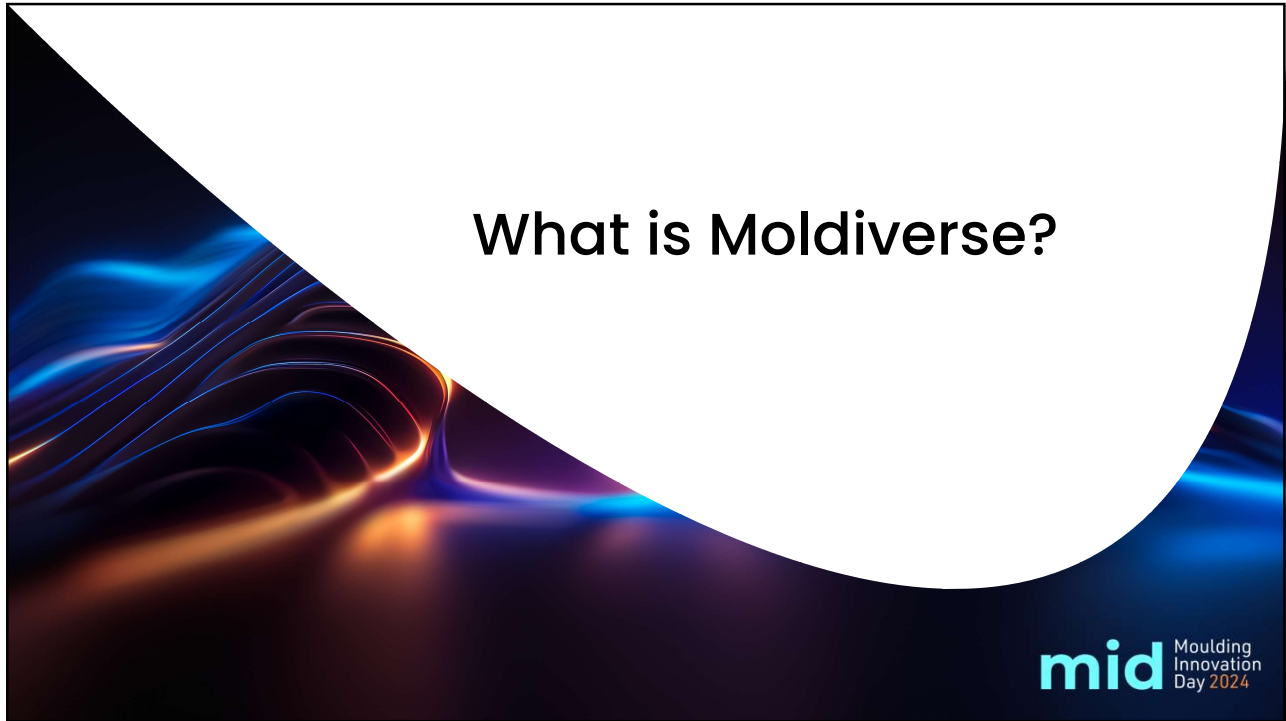




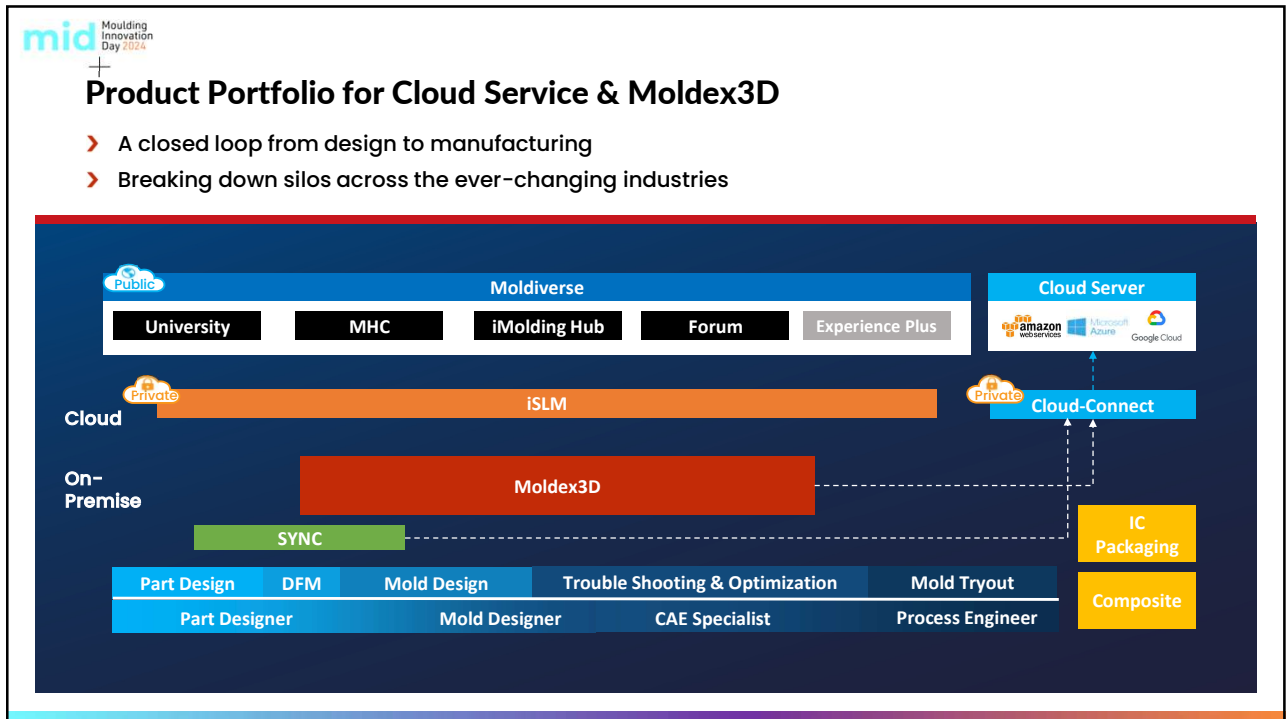
1



2



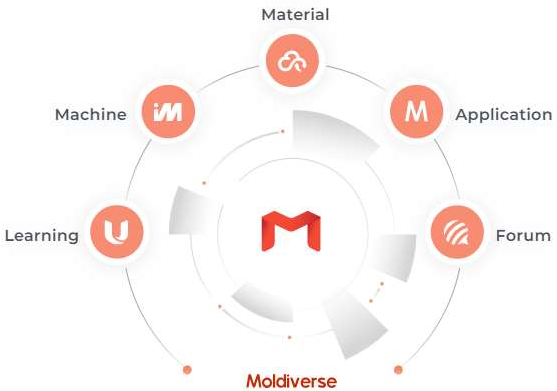
3



4


mid Moulding Innovation Day 2024

What is Moldiverse



- **The unified portal** for Moldex3D public cloud-based services
- **System** for polymer material data, smart molding solution, learning contents and other resources all with **ONE account**
- **Register for FREE** within access of **30 days free trial !**

5



Moldiverse

Sparking True Power of Innovation

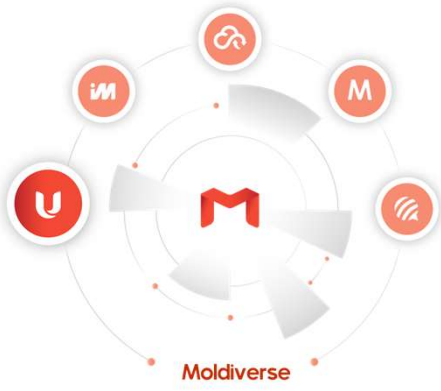
Welcome HsingYing !
Welcome back to Moldiverse

Watch More

6

6

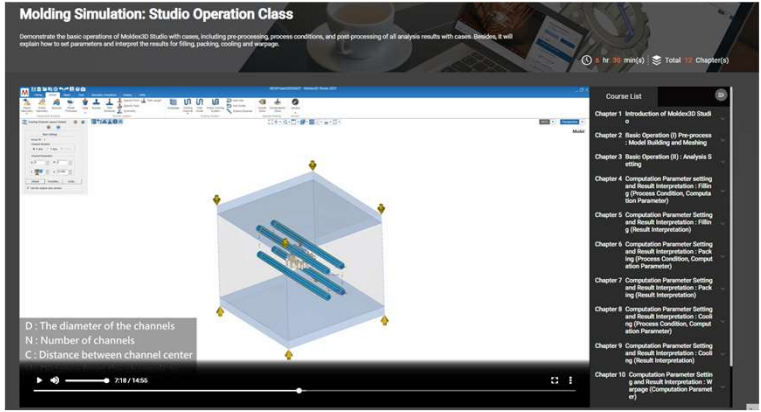
mid Moulding Innovation Day 2024



Learning

Molding Simulation: Studio Operation Class

Demonstrate the basic operations of Mold3D Studio with cases, including pre-processing, process conditions, and post processing of all analysis results with cases. Besides, it will explain how to set parameters and interpret the results for filling, packing, cooling and warpage.

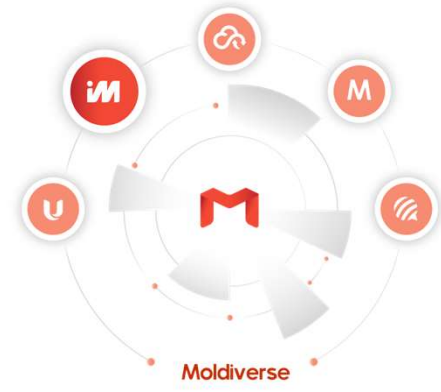


D: The diameter of the channels.
N: Number of channels.
C: Distance between channel center.

7/19 / 14:56

7

mid Moulding Innovation Day 2024



Machine

Back To Process List

Create Experiment 0341343476


Equipment Information | **Mold Equipment** | Injection Velocity | Cooling Parameters | Shot Size | Settings

Unit: Initial Molding Process Condition | Mold Close Open | Planning | Expert Setting | Machine Response for Run

Barrel Zone Temperature *

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
180	170	170	170	170
°C	°C	°C	°C	°C


Barrel Zone Temperature Setting Image *

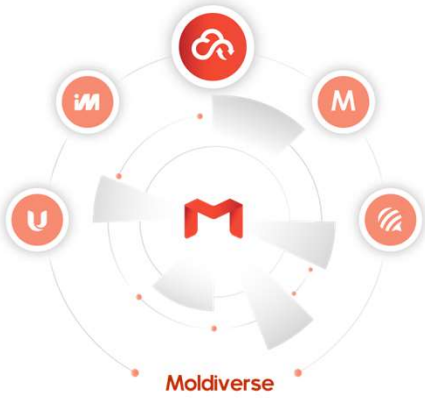


Mold Temperature

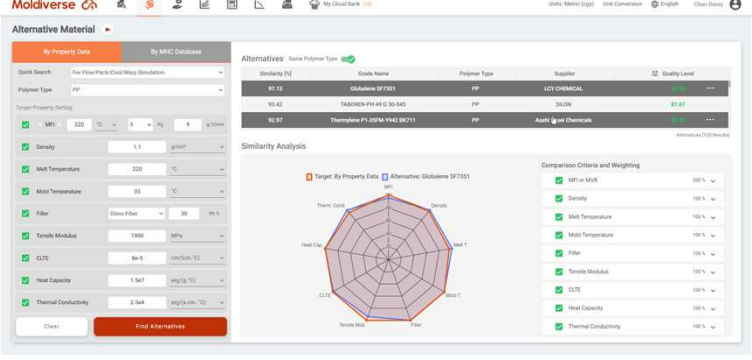
Empty Plate Mold Temperature *	Core Plate Mold Temperature *
180	170
°C	°C

8




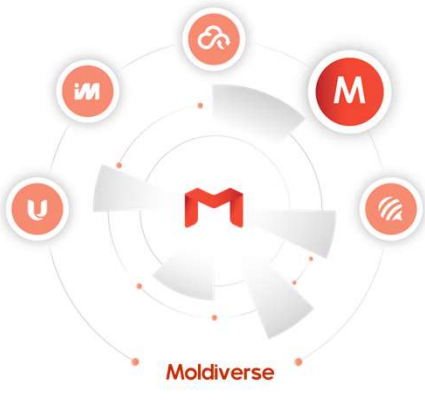


Material



9





Application

Welcome to Moldex3D Trial

Click here to download Moldex3D 30 days free trial.
File Size: 1.5GB (It should take about 15 minutes)

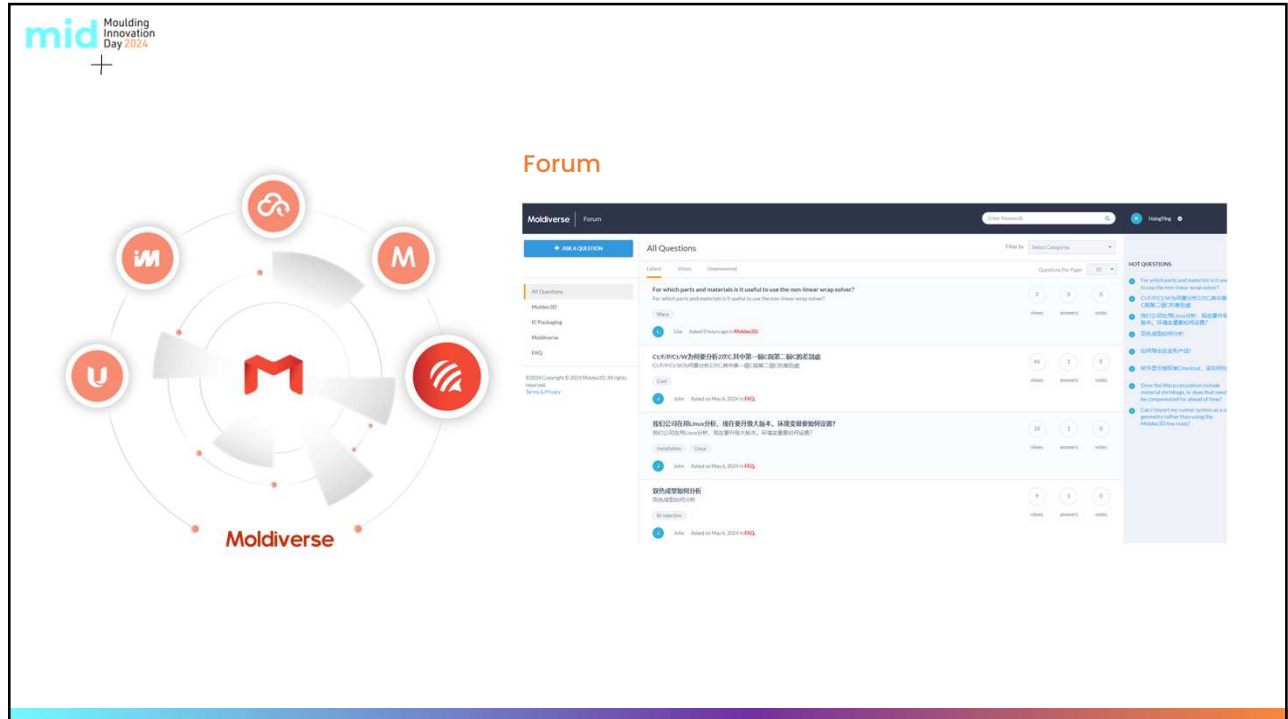
Please follow the [Supported Platform / Hardware Recommendation](#) in order to get good simulation efficiency.

DOWNLOAD FREE TRIAL (PC only)

Installation Note

- The installation process will need to be executed in an **open network environment**.
- The firewall will also need to allow the use of 9096 port

10



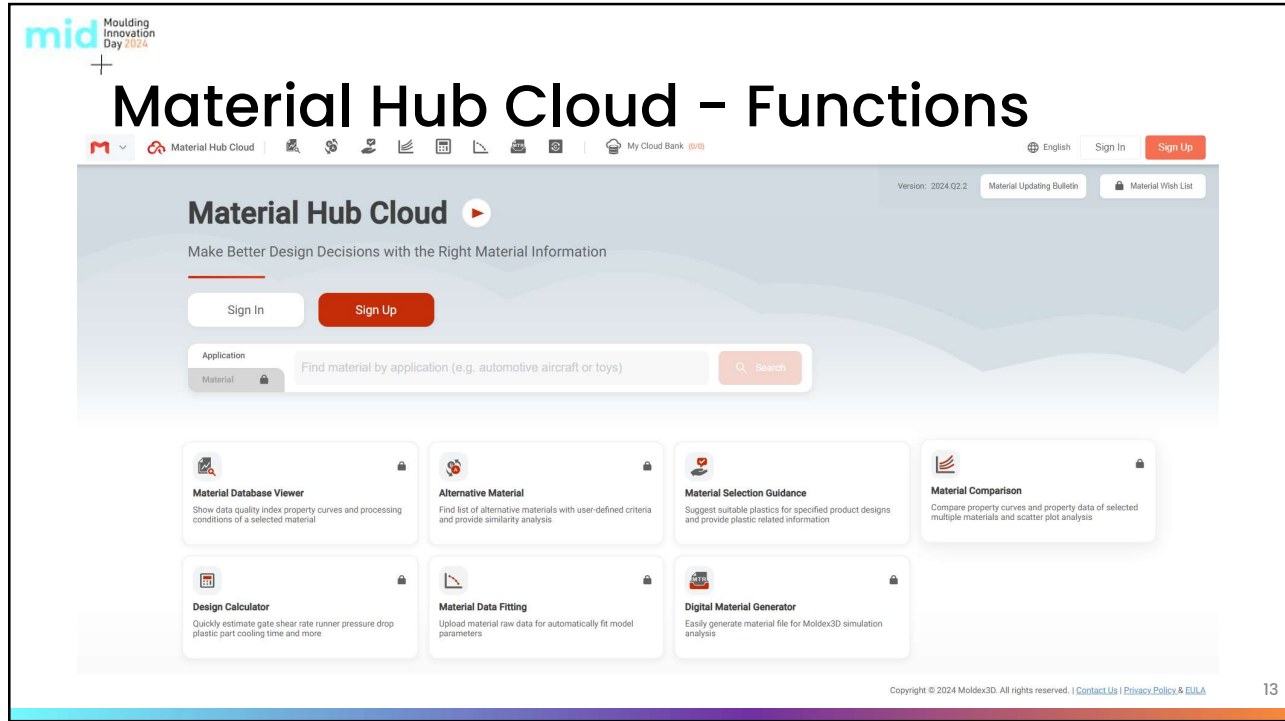
The image displays the 'mid Molding Innovation Day 2024' logo on the left, featuring a central 'M' surrounded by icons for 'iM', 'M', 'U', and a red circular icon. To the right is a screenshot of the 'Moldiverse Forum' website. The forum page shows a list of questions under the heading 'All Questions'. The first question is 'For which parts and materials is it useful to use the non-linear wrap solver?' with a 'View' button and a '1' in a circle. The second question is 'C/PTMCN 为同聚物共混体系之一组分, 在加工过程中, 如何控制其相容性?' with a 'View' button and a '1' in a circle. The third question is '请问在注塑成型中, 如何控制模具温度, 以减少模具的磨损?' with a 'View' button and a '1' in a circle. The fourth question is '双峰或多峰分布' with a 'View' button and a '1' in a circle. On the right side of the forum page, there is a 'HOT QUESTIONS' section with several questions and their respective view counts.

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The image shows a person's hands holding blue granular material. Overlaid on the scene are several digital data visualization elements. At the top, the text 'Material Hub Cloud (MHC)' is displayed. Below it is a radar chart with five axes labeled 'Pilot Databases', 'High Capacity', 'Team Collaboration', 'High Throughput', and 'High Quality'. To the left is a line graph with a logarithmic y-axis ranging from 10^+1 to 10^+14 and an x-axis from 0 to 200. To the right is another line graph with a linear y-axis ranging from 10^+4 to 10^+14 and an x-axis from 0 to 100. Various icons representing data, charts, and molecular structures are scattered around the visualizations.

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Most beneficial functions for Moldex3D Users

Material Hub Cloud - Functions

<p>01  Material Database Viewer ★ Show data quality index, property curves and processing conditions of a selected material</p> <p>02  Alternative Material ★ Find list of alternative materials with user-defined criteria and provide similarity analysis</p> <p>03  Material Selection Guidance Free Suggest suitable plastics for specified product designs and provide plastic related information</p> <p>04  Material Comparison Compare property curves and property data of selected multiple materials and scatter plot</p>	<p>05  Design Calculator Quickly estimate gate shear rate, runner pressure drop, plastic part cooling time and more</p> <p>06  Material data fitting Upload material raw data for automatically fit model parameters</p> <p>07  Digital Material Generator Easily generate material file for Moldex3D simulation analysis</p> <p>08  Supplier Data platform Coming soon Suppliers can upload their own material data at any time to update MHC databank</p>
---	--

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mid Moulding Innovation Day 2024

Material Hub Cloud | My Cloud Bank (17)

Material Database Viewer

POLYMAN E/Hi | ABS | A. Schulman

Material File Version - 1.0.0

Overview Viscosity PVT Heat Capacity Thermal Conductivity Mechanical Properties Process Conditions

Quality Index Analysis

Quality Level: ☆☆☆

Processing Curves

Mechanical Properties

- Elastic Modulus: $1.50E+10$ [dyne/cm²]
- Poisson's Ratio: 0.380 [-]
- CLTE: $8.00E-005$ [1/°C]
- Filler Content: None

Process Conditions [Show Bar in Charts]

- Transition Temp.: 109 [°C]
- Melt Temp.: 240 [°C]
- Freeze Temp.: 129 [°C]
- Ejection Temp.: 109 [°C]
- Mold Temp.: 60 [°C]
- User Def. Temp.: 25 [°C]

Related Material (9 Results)

Grade Name	Polymer Type	Supplier
POLYMAN E/Hi	ABS	A. Schulman
POLYMAN HH3	ABS	A. Schulman
POLYMAN HH3D	ABS	A. Schulman
POLYMAN M/SH	ABS	A. Schulman
POLYMAN M/TK.A	ABS	A. Schulman
POLYMAN HH	ABS	A. Schulman
POLYMAN M/M.A	ABS	A. Schulman
POLYFLAM RABS 9000 LV5	ABS	A. Schulman
POLYFLAM RABS 9050 LV5	ABS	A. Schulman

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Material Database Viewer

POLYFLAM RPP 500D | PP | A. Schulman

Material File Version - 1.0.0

Overview Viscosity PVT Heat Capacity Thermal Conductivity Crystallinity Mechanical Properties Process Conditions

Quality Index Analysis

Quality Level: ☆☆☆

Processing Curves

Mechanical Properties

- Elastic Modulus: $1.40E+10$ [dyne/cm²]
- Poisson's Ratio: 0.380 [-]
- CLTE: $1.50E-004$ [1/°C]
- Filler Content: None

Process Conditions [Show Bar in Charts]

- Transition Temp.: 120 [°C]
- Melt Temp.: 210 [°C]
- Freeze Temp.: 110 [°C]
- Ejection Temp.: 90 [°C]
- Mold Temp.: 60 [°C]
- User Def. Temp.: 25 [°C]

Individual Index and Data Source:

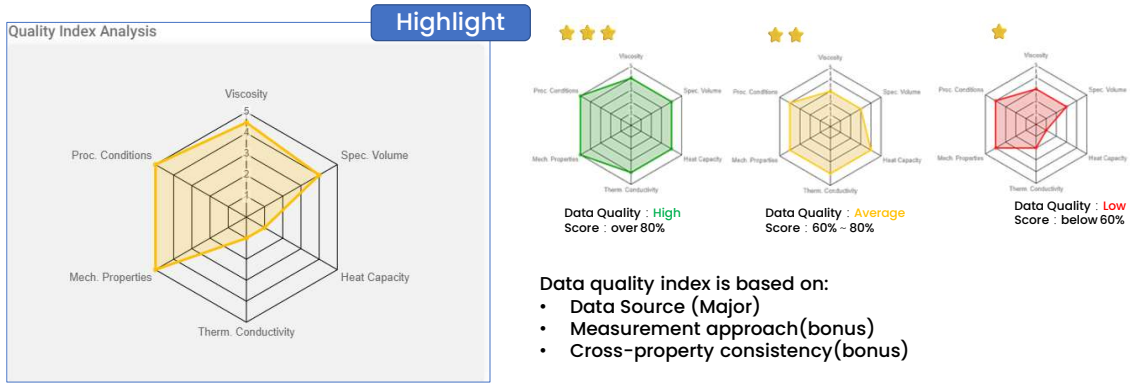
- Viscosity: 4.0 (Other Material Database)
- Spec. Volume: 3.5 (Generic Default)
- Heat Capacity: 3.0 (Other Material Database)
- Therm. Conductivity: 3.0 (Other Material Database)
- Mech. Properties: 4.0 (Other Material Database)
- Proc. Conditions: 4.0 (Other Material Database)

Quality Level for CAE Analysis:

- Flow: ☆☆☆
- Pack: ☆☆☆
- Cool: ☆☆☆
- Warp: ☆☆☆
- Total: ☆☆☆

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Material Database Viewer



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mid Moulding Innovation Day 2024

Material Hub Cloud | My Cloud Bank (17)

Alternative material

Alternative Material

By Property Data | By MHC Database

Quick Search: For Flow/Pack/Cool/Warp Simulation

Polymer Type: PP

Target Property Setting:

- MFI: 220 °C, 5 Kg, 9 g/10min
- Density: 1.1 g/cm³
- Melt Temperature: 220 °C
- Mold Temperature: 35 °C
- Filler: Glass Fiber, 30 WL%
- Tensile Modulus: 1900 MPa
- CLTE: 8e-5 cm/(cm.°C)
- Heat Capacity: 1.5e7 erg/(g.°C)
- Thermal Conductivity: 2.5e4 erg/(s.cm.°C)

Find Alternatives

Alternatives Same Polymer Type

Similarity [%]	Grade Name	Polymer Type	Supplier	Quality Level
98.50	Hostacom G3 R05	PP	LyondeBassell	☆☆☆☆
97.36	Globalene SF7351	PP	LCY CHEMICAL	☆☆☆☆
96.99	Thermylene P6-30FD-0684	PP	Asahi Kasei Chemicals	☆☆☆☆

Similarity Analysis

Target: By Property Data | Alternative: Hostacom G3 R05

Comparison Criteria and Weighting:

- MFI or MVR: 200%
- Density: 100%
- Melt Temperature: 100%
- Mold Temperature: 100%
- Filler: 100%
- Tensile Modulus: 100%
- CLTE: 100%
- Heat Capacity: 100%
- Thermal Conductivity: 100%

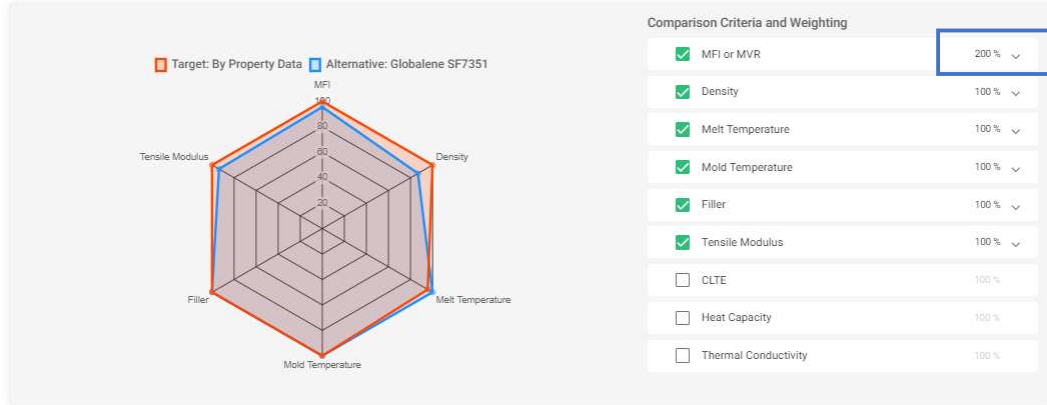
18

Alternative Material Search

- Similarity score base on:
- User-defined criteria
 - User-defined weighting

Highlight

Similarity Analysis



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Material selection guidance

Material Selection Guidance

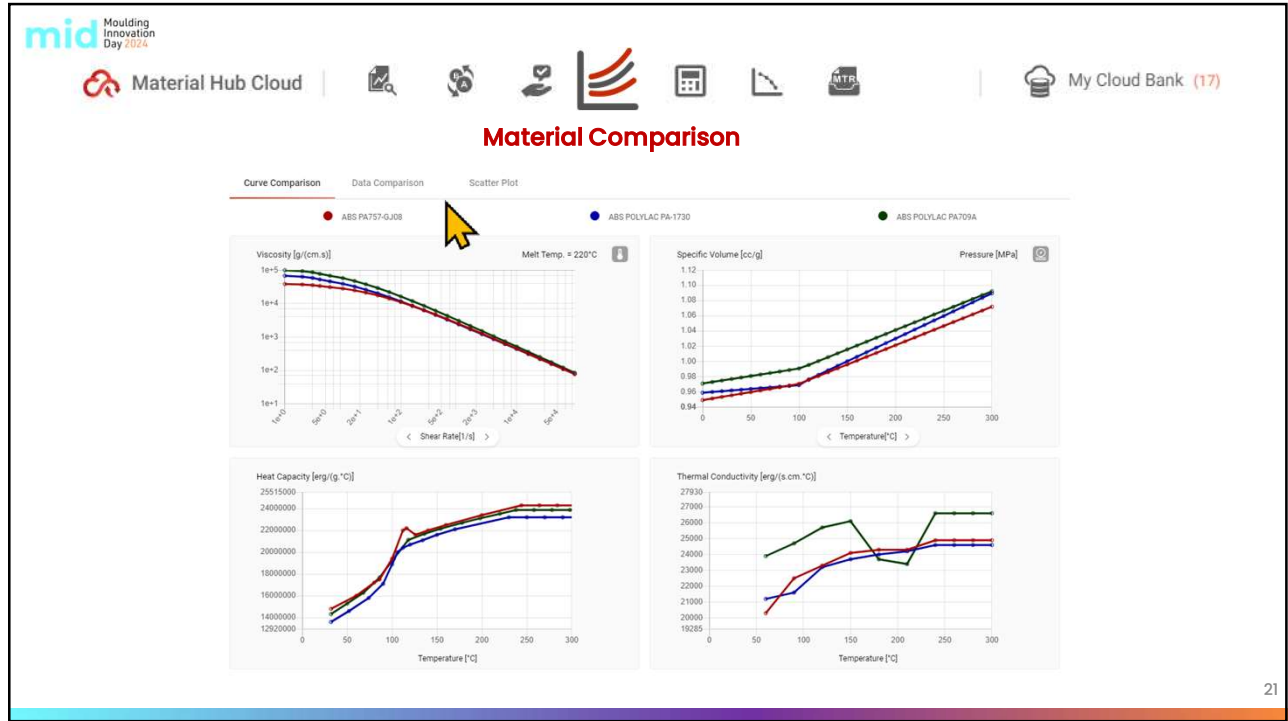
Filters

- Application Category
- Feature Category
- Processing Methods

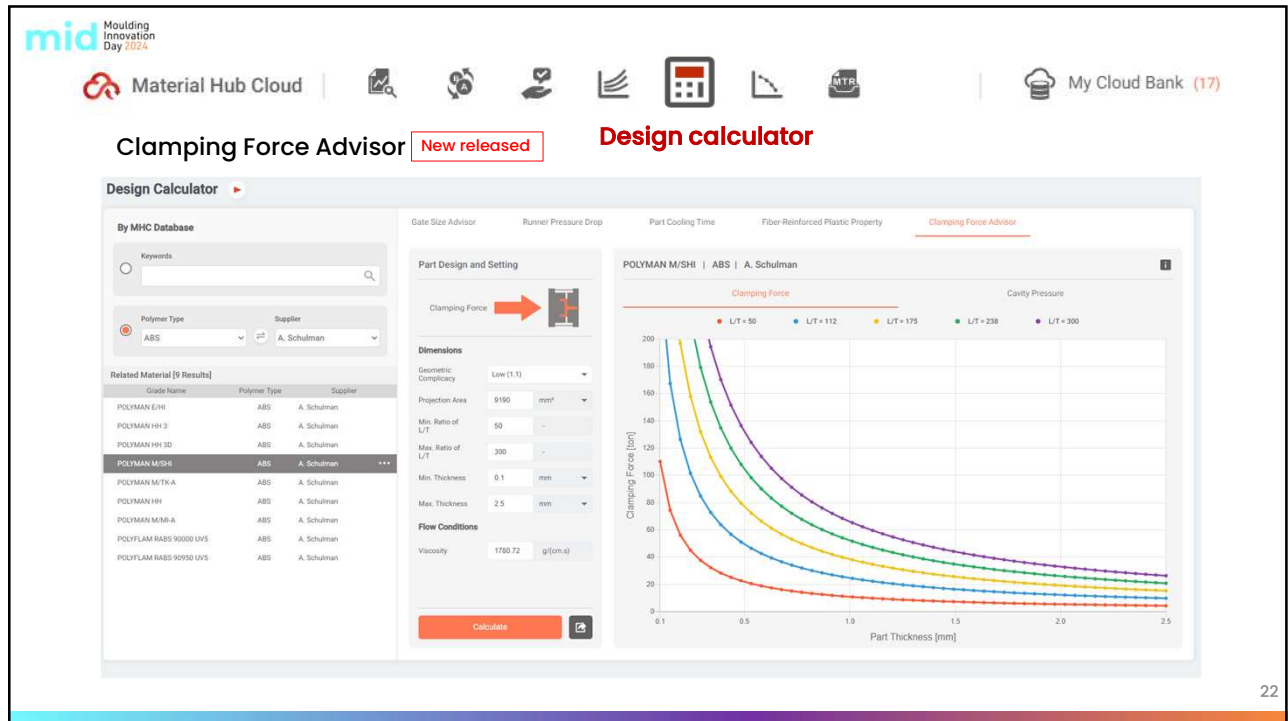
Please Choose At Least 1 Application Category, Feature Category or Processing Method

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Material Hub Cloud | My Cloud Bank (17)

Material data fitting

Material Data Fitting

Drag and drop a file here to upload
Files Supported: CSV, MRD
Choose File

Please upload material raw data first.

Click template to download for modification

Thermoplastic - Raw Data Template

- Viscosity (CSV)
- Viscosity (MRD)
- PVT (CSV)
- PVT (MRD)
- Crystallinity (CSV)
- Crystallinity (MRD)

Thermoset - Raw Data Template

- Curing Kinetics (CSV)
- Curing Kinetics (MRD)
- Viscosity-C (CSV)
- Viscosity-C (MRD)
- PVT-C (CSV)
- PVT-C (MRD)

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Material Hub Cloud | My Cloud Bank (17)

Digital material generator

Moldex3D Material Hub Cloud

Units: Metric (g/s) Unit Conversion EN Andy Tsai

Digital Material Generator

Polymer Type: PA6 Grade Name: Generic PA6 20230519 Supplier: Comment:

Viscosity | PVT | Heat Capacity | Thermal Conductivity | Mechanical Properties | Process Conditions

Model Parameters

n	0.398	-
τ^*	910000	dyne/cm ²
D1	1.97e+22	g/(cm.s)
D2	323	K
D3	0	cm ³ /K/dt ²
A1	53.1	-
A2b	51.6	K

Read Fitting Result

Recover Replace

Material File Revision Logs

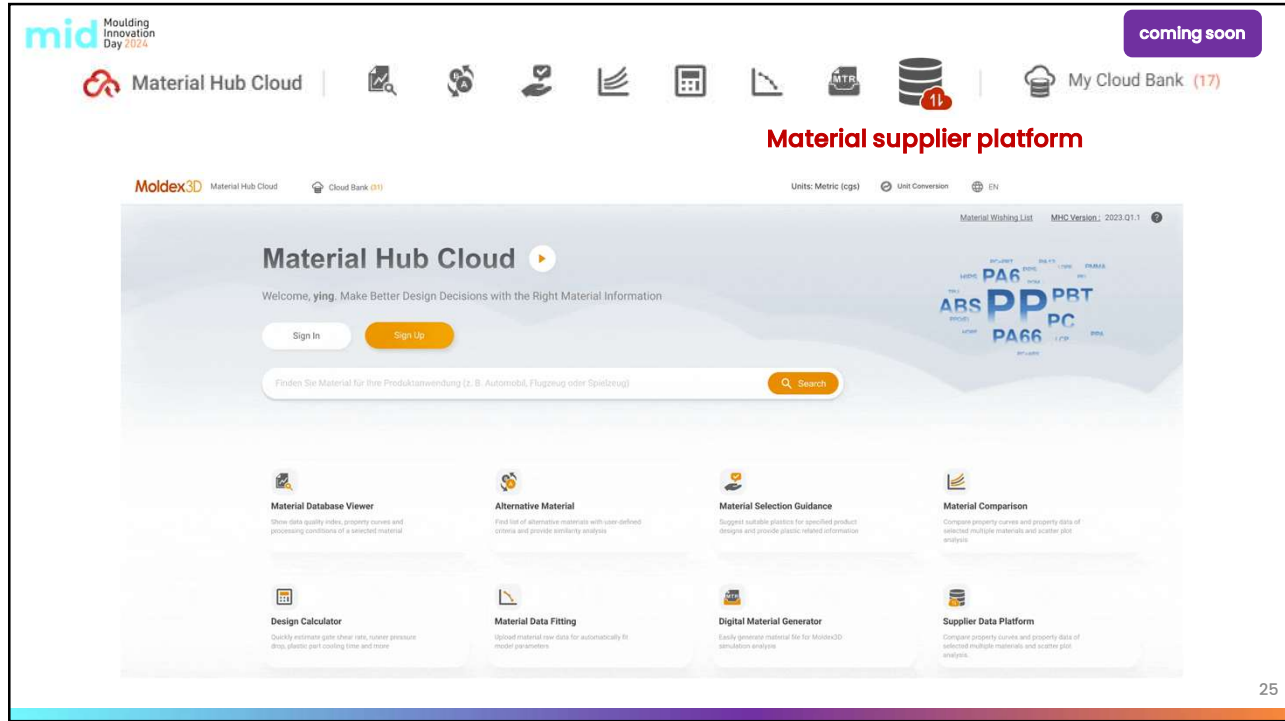
[05-19-2023 13:55]
Generic Polymer Type: PA6

Export Material File (.mtd)

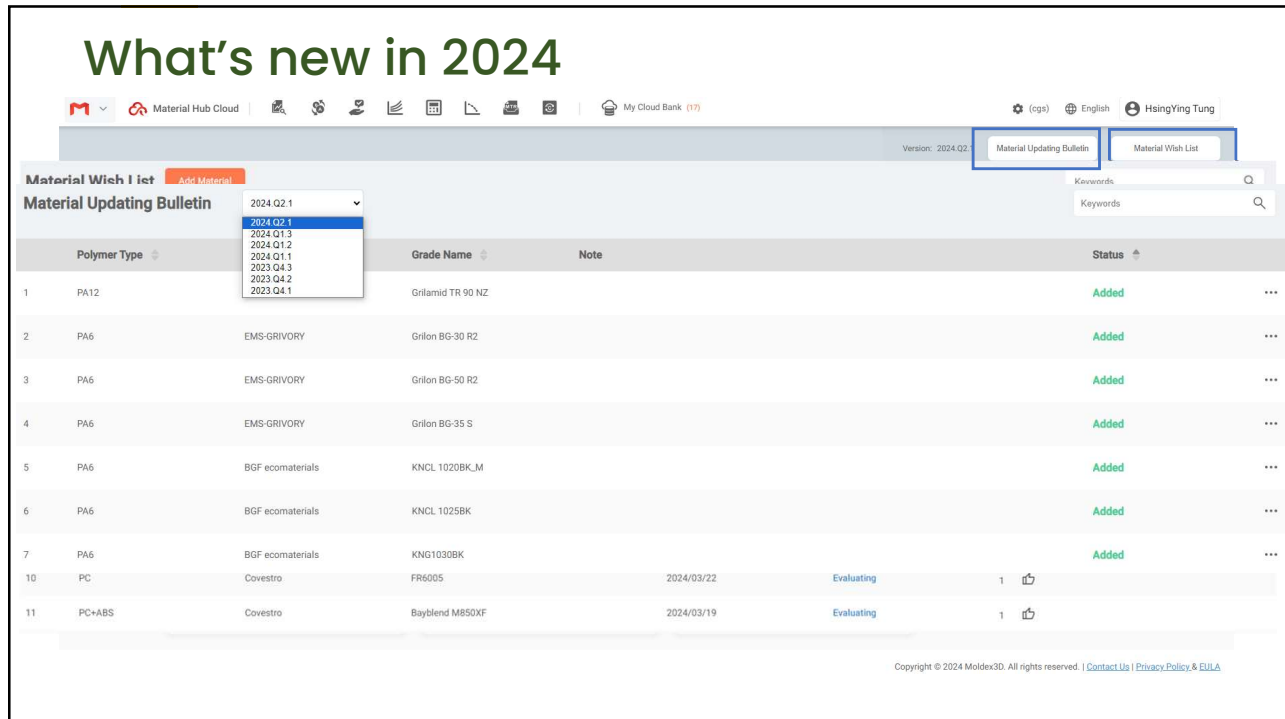
Def @ T = 240 [°C] -- Def @ T = 265 [°C] -- Def @ T = 290 [°C]
Mod @ T = 240 [°C] ** Mod @ T = 265 [°C] == Mod @ T = 290 [°C] --

24

24



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Overview



- **Multipurpose:** self-teaching & employee training
- **Complete Package:** molding process + software training + industry application
- **Flexibility:** learn wherever you want, whenever you want

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Free Limited Chapters



Moldex3D Software Training

The 6-course training containing 40+ demo videos by Moldex3D software experts.

Free Limited Chapters



Moldex3D Plastics e-Learning

The step-by-step guide to the injection molding process with virtual molding machine operation. Course contains 5 topics with quizzes.

Free



Open Course

Topics include best practice, tips & tricks, and advanced application/processes.

New in 2024

Free



Moldex3D Help

Online user guides for your Moldex3D products

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Moldex3D Software Training

Easy-to-follow, step-by-step tutorials teaching the fundamentals of Moldex3D software

Language: English, Traditional Chinese, Simplified Chinese



Moldex3D Software Training




Molding Simulation: Basic Class Molding Simulation: Studio Operation Class Advance Molding Simulation: Studio Operation Class

Step-By-Step Practice Moldex3D Studio Advanced Operation SYNC Operation

Total: 17 hrs

30

30




Free 7 Chapters

-Moldex3D Software Training-

Moldex3D Software Training	Free Viewing	Moldex3D Software Training	Free Viewing
1. Molding Simulation: Basic Class		4. Step-By-Step Practice	
Ch1. Procedure of plastic product development	V	Ch1. Step-by-step_Practice : CL-R model	V
Ch2. Material Properties of Plastics		Ch2. Step-by-step_Practice : Ear Phone Model (Core-shift)	
Ch3. Introduction to Part Design		Ch3. Step-by-step_Practice : Multi-Cavity Mold	
Ch4. Introduction to Mold Design		Ch4. Step-by-step_Practice : Non-Matching Mold Plate	
Ch5. Injection Molding Machine and Process Conditions		Ch5. Step-by-step_Practice : Powder Injection Molding (PIM)	
2. Molding Simulation: Studio Operation Class		Ch6. Step-by-step_Practice : PU Chemical Foaming Molding (CFM)	
Ch1. Introduction of Moldex3D Studio	V	Ch7. Step-by-step_Practice : BI-Injection (BIIM)	
Ch2. Basic Operation (I) Pre-process : Model Building and Meshing	V	Ch8. Step-by-step_Practice : Co-Injection (CoIM)	
Ch3. Basic Operation (II) : Analysis Setting	V	Ch9. Step-by-step_Practice : Foam Injection Molding (FIM)	
Ch4. Computation Parameter setting and Result Interpretation : Filling (Process Condition, Computation Parameter)		Ch10. Step-By-Step_Practice : Injection Compression Molding (ICM)	
Ch5. Computation Parameter Setting and Result Interpretation : Filling (Result Interpretation)		Ch11. Step-by-step_Practice : Toy Car (Shell) Model Pre-Process	
Ch6. Computation Parameter Setting and Result Interpretation : Packing (Process Condition, Computation Parameter)		Ch12. Step-by-step_Practice : Toy Car (Shell) Model Analysis Setting and Post-Process	
Ch7. Computation Parameter Setting and Result Interpretation : Packing (Result Interpretation)		5. Moldex3D Studio Advanced Operation	
Ch8. Computation Parameter Setting and Result Interpretation : Cooling (Process Condition, Computation Parameter)		Ch1. Moldex3D Studio Advanced Operation : CADdoctor	V
Ch9. Computation Parameter Setting and Result Interpretation : Cooling (Result Interpretation)		Ch2. Moldex3D Studio Advanced Operation : Guide to Creating 3D CFD Mesh	
Ch10. Computation Parameter Setting and Result Interpretation : Warpage (Computation Parameter)		Ch3. Moldex3D Studio Advanced Operation : Computing Manager	
Ch11. Computation Parameter Setting and Result Interpretation : Warpage (Result Interpretation)		Ch4. Results Tool Guide : View Angel Settings, Time Series, Mesh Front	
Ch12. Introduction of CAE Mode Setting and Machine Mode Setting		Ch5. Results Tool Guide : Particle Tracer	
3. Advance Molding Simulation: Studio Operation Class		Ch6. Results Tool Guide : Streamline	
Ch1. Advance Molding Process Settings and Results : Fiber		Ch7. Results Tool Guide : Probes, Iso-Contours, Slicing, Clipping , Isosurface, Comparison Window & Sync	
Ch2. Advance Molding Process Settings and Results : Stress		Ch8. Results Tool Guide : XY Plot (Sensor Nodes, History, Thickness, Distribution)	
Ch3. Advance Molding Process Settings and Results : Expert Module		Ch9. Results Tool Guide : Warp, Measurement Tool (Deformation, Anchor Plane, Distance, Roundness, Flatness, Model Thickness)	
		Ch10. Results Tool Guide : Mold Shrinkage Compensation (Export Deformed Model, Mold Shrinkage Compensation)	
		Ch11. Results Tool Guide : Results list, Viewer	
		Ch12. Mesh, Hexa-Based Runner Solid Mesh Construction Guide	
		6. SYNC Operation	
		Ch1. Moldex3D SYNC Introduction	V
		Ch2. Moldex3D SYNC for NX	
		Ch3. Moldex3D SYNC for Creo	

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Free 7 Chapters

-Moldex3D Software Training-

Moldex3D Software Training	Free Viewing
1. Molding Simulation: Basic Class	
Ch1. Procedure of plastic product development	
Ch2. Material Properties of Plastics	
Ch3. Introduction to Part Design	
Ch4. Introduction to Mold Design	
Ch5. Injection Molding Machine and Process Conditions	
2. Molding Simulation: Studio Operation Class	
Ch1. Introduction of Moldex3D Studio	
Ch2. Basic Operation (I) Pre-process : Model Building and Meshing	
Ch3. Basic Operation (II) : Analysis Setting	
Ch4. Computation Parameter setting and Result Interpretation : Filling (Process Condition, Computation Parameter)	
Ch5. Computation Parameter Setting and Result Interpretation : Filling (Result Interpretation)	
Ch6. Computation Parameter Setting and Result Interpretation : Packing (Process Condition, Computation Parameter)	
Ch7. Computation Parameter Setting and Result Interpretation : Packing (Result Interpretation)	
Ch8. Computation Parameter Setting and Result Interpretation : Cooling (Process Condition, Computation Parameter)	
Ch9. Computation Parameter Setting and Result Interpretation : Cooling (Result Interpretation)	
Ch10. Computation Parameter Setting and Result Interpretation : Warpage (Computation Parameter)	
Ch11. Computation Parameter Setting and Result Interpretation : Warpage (Result Interpretation)	
Ch12. Introduction of CAE Mode Setting and Machine Mode Setting	
3. Advance Molding Simulation: Studio Operation Class	
Ch1. Advance Molding Process Settings and Results : Fiber	
Ch2. Advance Molding Process Settings and Results : Stress	
Ch3. Advance Molding Process Settings and Results : Expert Module	

Moldex3D Software Training > Molding Simulation: Basic Class

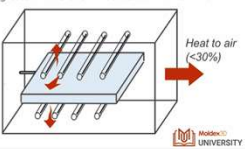
Molding Simulation: Basic Class

Introduction to injection molding, and explain the manufacturability of mold design, the principles of product design, materials introduction, and common principles for setting molding conditions.

1 hr 17 min(s) Total | Chapter(s)

Setting of Air Temperature

- Heat dissipation by air
 - The air around the mold transfers heat to the air by thermal convection.
 - This is a natural convection which is different from the forced convection of coolant.
- Heat dissipation by radiation
 - The heat is dissipated outside by radiation.
 - When the mold temperature is higher, the influence is greater. The level of influence is similar to which of air heat dissipation.




Course List

- Chapter 1 Introduction of Plastic Molding
- Chapter 2 Material Properties of Plastics
- Chapter 3 Introduction to Part Design
- Chapter 4 Introduction to Mold Design
- Chapter 5 Injection Molding Machine and Process Conditions
- 1. Play 40:11

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Moldex3D Software Training-

Moldex3D Software Training

1. Molding Simulation: Basic Class

- Ch1. Procedure of plastic product development
- Ch2. Material Properties of Plastics
- Ch3. Introduction to Part Design
- Ch4. Introduction to Mold Design
- Ch5. Injection Molding Machine and Process Conditions

2. Molding Simulation: Studio Operation Class

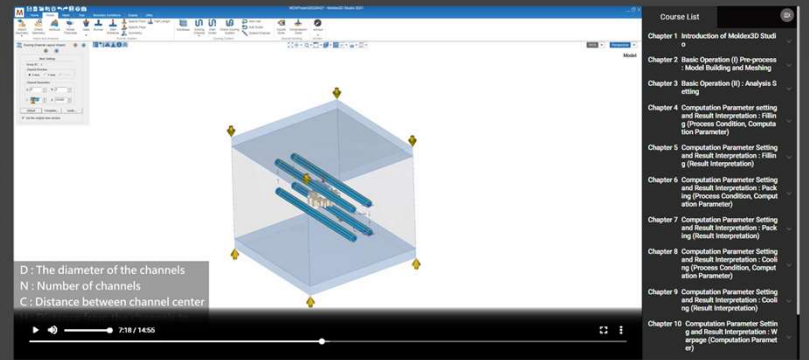
- Ch1. Introduction of Moldex3D Studio
- Ch2. Basic Operation (I) Pre-process : Model Building and Meshing
- Ch3. Basic Operation (II) : Analysis Setting
- Ch4. Computation Parameter setting and Result Interpretation : Filling (Process Condition, Computation Parameter)
- Ch5. Computation Parameter Setting and Result Interpretation : Filling (Result Interpretation)
- Ch6. Computation Parameter Setting and Result Interpretation : Packing (Process Condition, Computation Parameter)
- Ch7. Computation Parameter Setting and Result Interpretation : Packing (Result Interpretation)
- Ch8. Computation Parameter Setting and Result Interpretation : Cooling (Process Condition, Computation Parameter)
- Ch9. Computation Parameter Setting and Result Interpretation : Cooling (Result Interpretation)
- Ch10. Computation Parameter Setting and Result Interpretation : Warpage (Computation Parameter)
- Ch11. Computation Parameter Setting and Result Interpretation : Warpage (Result Interpretation)
- Ch12. Introduction of CAE Mode Setting and Machine Mode Setting

3. Advance Molding Simulation: Studio Operation Class

- Ch1. Advance Molding Process Settings and Results : Fiber
- Ch2. Advance Molding Process Settings and Results : Stress
- Ch3. Advance Molding Process Settings and Results : Expert Module

Molding Simulation: Studio Operation Class


Demonstrate the basic operations of Moldex3D Studio with cases, including pre-processing, process conditions, and post processing of all analysis results with cases. Besides, it will explain how to set parameters and interpret the results for filling, packing, cooling, and warpage.



D : The diameter of the channels
N : Number of channels
C : Distance between channel center

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Moldex3D Software Training-

Moldex3D Software Training

1. Molding Simulation: Basic Class

- Ch1. Procedure of plastic product development
- Ch2. Material Properties of Plastics
- Ch3. Introduction to Part Design
- Ch4. Introduction to Mold Design
- Ch5. Injection Molding Machine and Process Conditions

2. Molding Simulation: Studio Operation Class

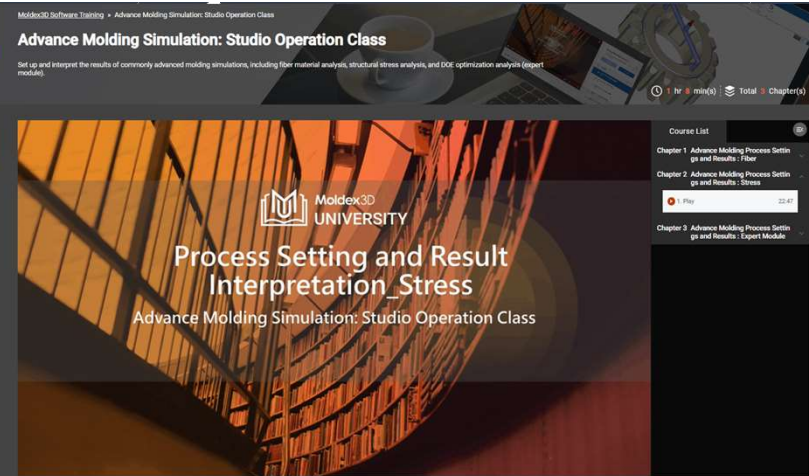
- Ch1. Introduction of Moldex3D Studio
- Ch2. Basic Operation (I) Pre-process : Model Building and Meshing
- Ch3. Basic Operation (II) : Analysis Setting
- Ch4. Computation Parameter setting and Result Interpretation : Filling (Process Condition, Computation Parameter)
- Ch5. Computation Parameter Setting and Result Interpretation : Filling (Result Interpretation)
- Ch6. Computation Parameter Setting and Result Interpretation : Packing (Process Condition, Computation Parameter)
- Ch7. Computation Parameter Setting and Result Interpretation : Packing (Result Interpretation)
- Ch8. Computation Parameter Setting and Result Interpretation : Cooling (Process Condition, Computation Parameter)
- Ch9. Computation Parameter Setting and Result Interpretation : Cooling (Result Interpretation)
- Ch10. Computation Parameter Setting and Result Interpretation : Warpage (Computation Parameter)
- Ch11. Computation Parameter Setting and Result Interpretation : Warpage (Result Interpretation)
- Ch12. Introduction of CAE Mode Setting and Machine Mode Setting

3. Advance Molding Simulation: Studio Operation Class

- Ch1. Advance Molding Process Settings and Results : Fiber
- Ch2. Advance Molding Process Settings and Results : Stress
- Ch3. Advance Molding Process Settings and Results : Expert Module

Advance Molding Simulation: Studio Operation Class

Set up and interpret the results of commonly advanced molding simulations, including fiber material analysis, structural stress analysis, and DOE optimization analysis (Expert module).




Process Setting and Result Interpretation_ Stress

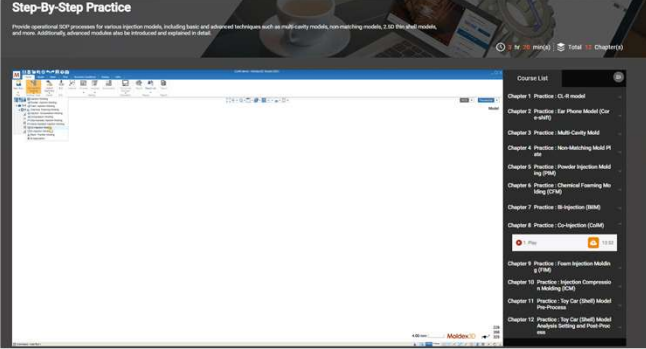
Advance Molding Simulation: Studio Operation Class

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-Moldex3D Software Training-



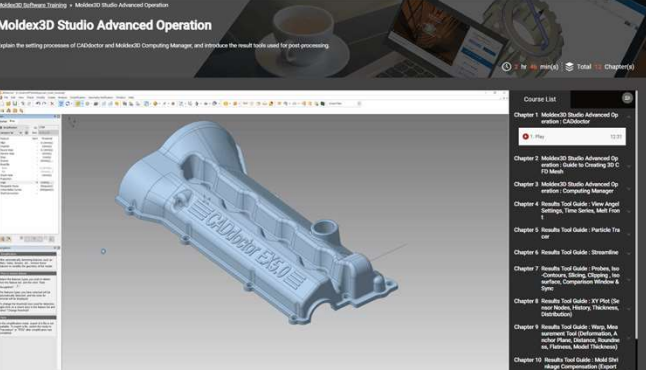
Moldex3D Software Training	Free Viewing
4. Step-By-Step Practice	V
Ch1. Step-by-step_Practice : CL-R model	
Ch2. Step-by-step_Practice : Ear Phone Model (Core-shift)	
Ch3. Step-by-step_Practice : Multi-Cavity Mold	
Ch4. Step-by-step_Practice : Non-Matching Mold Plate	
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Ch10. Step-By-Step_Practice : Injection Compression Molding (ICM)	
Ch11. Step-by-step_Practice : Toy Car (Shell) Model Pre-Process	
Ch12. Step-by-step_Practice : Toy Car (Shell) Model Analysis Setting and Post-Process	
5. Moldex3D Studio Advanced Operation	V
Ch1. Moldex3D Studio Advanced Operation : CADdoctor	
Ch2. Moldex3D Studio Advanced Operation : Guide to Creating 3D CFD Mesh	
Ch3. Moldex3D Studio Advanced Operation : Computing Manager	
Ch4. Results Tool Guide : View Angel Settings, Time Series, Melt Front	
Ch5. Results Tool Guide : Particle Tracer	
Ch6. Results Tool Guide : Streamline	
Ch7. Results Tool Guide : Probes, Iso-Contours, Slicing, Clipping , Isosurface, Comparison Window & Sync	
Ch8. Results Tool Guide : XY Plot (Sensor Nodes, History, Thickness, Distribution)	
Ch9. Results Tool Guide : Warp, Measurement Tool (Deformation, Anchor Plane, Distance, Roundness, Flatness, Model Thickness)	
Ch10. Results Tool Guide : Mold Shrinkage Compensation (Export Deformed Model, Mold Shrinkage Compensation)	
Ch11. Results Tool Guide : Results List, Viewer	
Ch12. Mesh_Hexa-Based Runner Solid Mesh Construction Guide	
6. SYNC Operation	V
Ch1. Moldex3D SYNC Introduction	
Ch2. Moldex3D SYNC for NX	
Ch3. Moldex3D SYNC for Creo	

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-Moldex3D Software Training-



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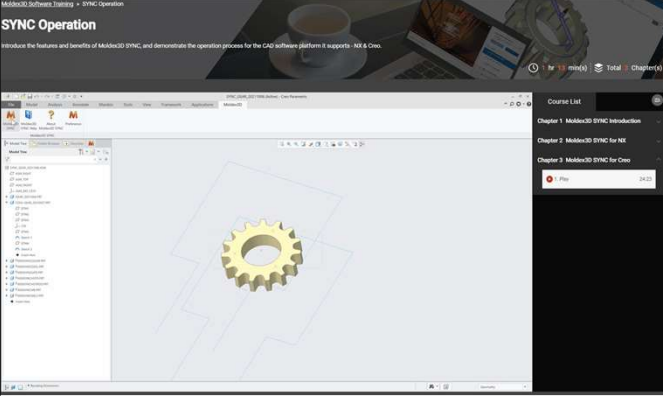
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Moldex3D Software Training -

SYNC Operation

Introduce the features and benefits of Moldex3D SYNC and demonstrate the operation process for the CAD software platform it supports: NX & Creo.




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Moldex3D

Open Course



Open Course

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Moldex3D Open Course

- Watch past webinars on demand: tips and tricks, best practice, case studies
- Over 500 videos



Recommended Courses »



Latest Courses »



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Moldex3D Plastics E-Learning



MPE

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Traditional v.s. Digital Training Methods





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-Moldex3D Plastics E-Learning- Free 4 Chapters

Moldex3D Plastics e-Learning (MPEs)	Free Viewing
1. Development Process of Injection Molding	
Ch1. Procedure of plastic product development	
Ch1.1 Procedure of plastic product development	V
Ch1.2 Principles of product development	
Ch1.3 Competitiveness of product development	
Ch1.4 Requirement of product quality	
Ch2. Basic knowledge of plastics materials	
Ch2.1 What is plastic	
Ch2.2 Classification of plastics	
Ch2.3 The property of plastics	
Ch2.4 The application of plastics	
Ch2.5 The recycling of plastics	
Ch3. Development and design of the mold	
Ch3.1 Introduction of procedure for mold development	
Ch3.2 The external structure of injection mold	
2. Injection Machine Virtual Operation	
Ch1. Introduction of molding machine operation	V
Ch2. Injection unit setting	
Ch3. Temperature setting	
Ch4. Storage setting	
Ch5. Injection setting	
Ch6. Mold setting	
Ch7. Ejection setting	
Ch8. Two-stage ejection setting	
Ch9. Purging materials procedure	
Ch10. Mold setup procedure	
Ch11. Mold testing procedure	

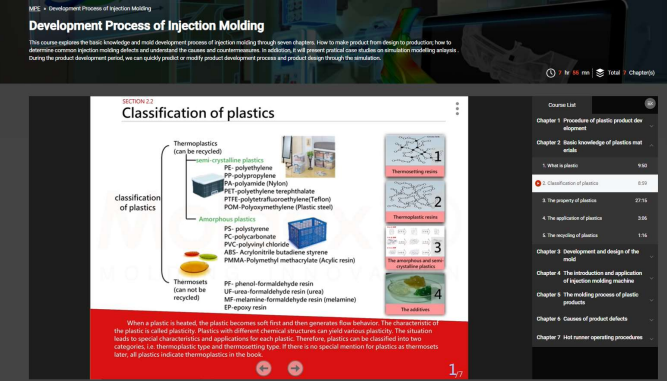
Moldex3D Plastics e-Learning (MPEs)	Free Viewing
3. Theory and Application of Hot Runner System	
Volume I	
Ch1. Introduction	V
Ch2. Brief introduction to hot runner system	
Ch3. Manifold and nozzle	
Ch4. Design principle of hot runner	
Ch5. Background knowledge of heat transfer	
Ch6. Peripherals equipment	
Ch7. Hot runner system installation SOP	
Ch8. Defects and solutions	
Volume II	
Ch1. Hot runner design and manufacturing process	
Ch2. Performance and cost of hot runner system	
4. Mold Structure and Case Analysis	
Ch1. Dashcam backcover	
Ch1.1 Specifications and requirements	V
Ch2. Baby carseat body	
Ch3. Consumer product cover	
Ch4. Medical regulator knob	
Ch5. Earphone jack cover	
Ch6. Bearing deck	
Ch7. Lens housing	
Ch8. StackMold	
5. Molding Machine Operation	
6. Quiz	

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-Moldex3D Plastics E-Learning-

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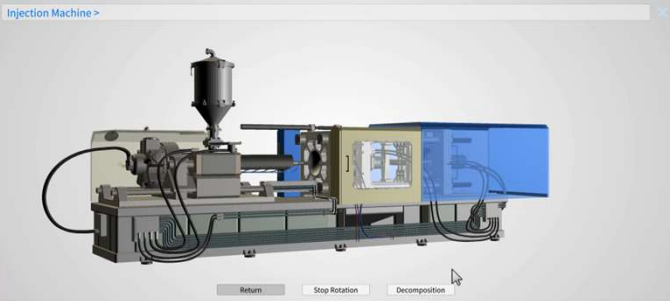


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-Moldex3D Plastics E-Learning-

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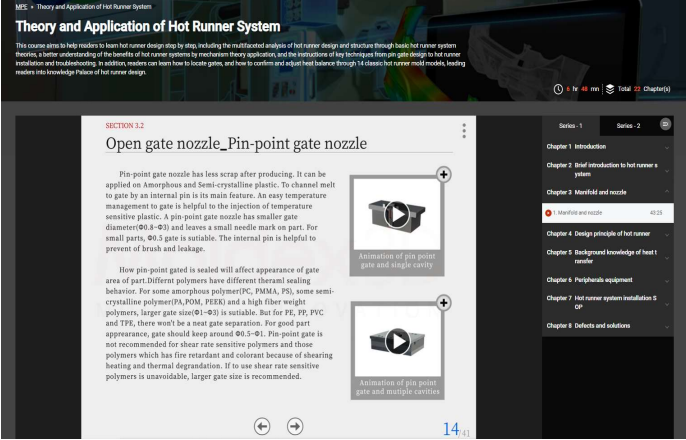


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**Moldex3D UNIVERSITY -Moldex3D Plastics E-Learning-
Free 4 Chapters**



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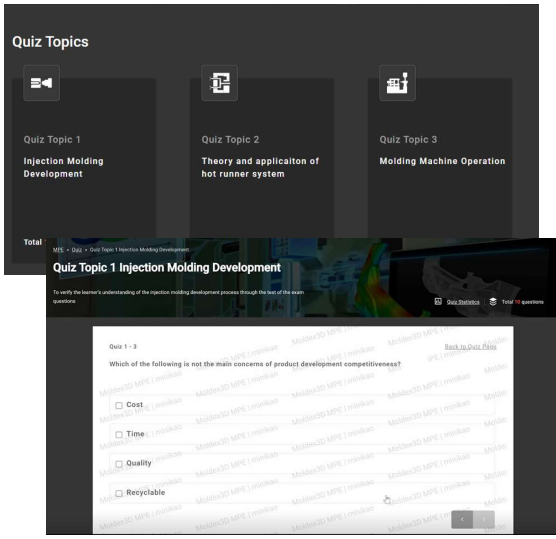
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Moldex3D UNIVERSITY -Moldex3D Plastics E-Learning- Free 4 Chapters

Quiz Topics

- Quiz Topic 1: Injection Molding Development
- Quiz Topic 2: Theory and application of hot runner system
- Quiz Topic 3: Molding Machine Operation

Quiz Topic 1 Injection Molding Development

Ques 1 - 3

Which of the following is not the main concerns of product development competitiveness?

- Cost
- Time
- Quality
- Recyclable

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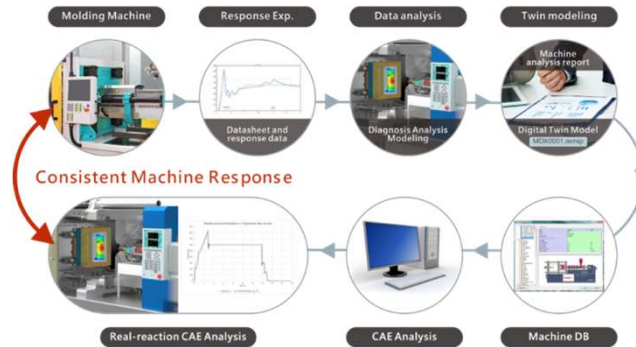
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iMolding Hub - Overview

iMolding Hub is built upon Moldex3D's leading machine characterization service. As a comprehensive "molding cloud," the web-based service is dedicated to **optimizing on-site molding results** by incorporating **scientific molding** and **injection molding machine responses**.



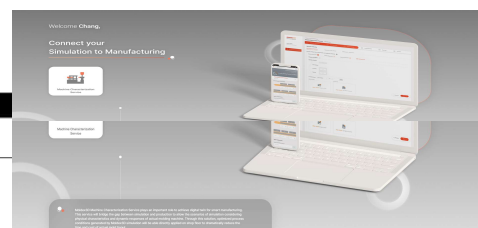
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iMolding Hub - Functions

1. **Machine Database [Free]**: Moldex3D's machine databank + establish your own machine library
2. **Machine Characterization [Paid]**: follow the guided process to get machine response **report** and **characterization file** (.mmip)

Analysis Items of machine characterization	
Specification Analysis	<ul style="list-style-type: none"> • Speed Specification • Pressure Specification
Performance Analysis	<ul style="list-style-type: none"> • Speed Response • Switch Position • Charge Stroke • Pressure Response • Response Time • Delay Time
Manufacturing Analysis	<ul style="list-style-type: none"> • Manufacturing Stability • Potential Issue • Backflow Analysis



3. **Mold Tryout [Beta]**: preliminary + optimized process parameters based on on-site tryout results

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Machine Database [Free]: Moldex3D's machine databank + establish your own machine library

Machine Database

Implementing an injection machine database contributes to a more organized, streamlined, and data-driven manufacturing environment.

Injection Molding Machines

10 total

In-house Serial No.	Machine Serial No.	Maker	Grade	Type of Machine	Created by	Last Modified	Experiment Status
MDX00010		Wittmann Battenfeld	SmartPower 110 350-40	Hybrid	iMolding	2024/05/27	No Data
MDX00009		TOYO	S-100 4 01500-32	Electric	iMolding	2024/05/27	No Data
MDX00008		ARBURG	4705 1100 170-35	Hydraulic	iMolding	2024/05/27	No Data
MDX00007		FANUC	S-20001 508-9T0-40	Electric	iMolding	2024/05/27	No Data
MDX00006		SUMITOMO	EI-EXIS SP150/500-475-40	Electric	iMolding	2024/05/27	No Data
MDX00005		FANUC	S-200011008-HS-36	Electric	iMolding	2024/05/27	No Data
MDX00004		ARBURG	1200T 1300-350-40	Hydraulic	iMolding	2024/05/27	No Data
MDX00003		ENGEL	VC 440/150 Electric-40	Electric	iMolding	2024/05/27	No Data
MDX00001		NISSEI	ES400	Electric	iMolding	2023/05/23	Incomplete

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Machine Characterization: follow the guided process to get machine response report and characterization file (.mmip)

Machine Characterization Service

Identify physical characteristics of the machine
Evaluate production stability and related potential issues

Back To Machine List

MDX00002

Machine Info	Machine Characterization	Chart List
General Factory Area: Taiwan Maker: ARBURG Type of Machine: Hybrid Remark: Demo	In-house Serial No.: MDX00002 Grade: S20A1300-40 Machine Serial No.: Max. Screw Stroke: 160 mm	Machine Image: 

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Mold tryout Advisor (Invited only): Intergrate with CAE result and AI to advise the mold tryout. Reduce the time and the cost from mold production

Mold Tryout Adviser (Beta, invited-only)

Able to directly apply CAE process conditions on shop floor, Reduce the time and cost from mold tryout to production

Import mold tryout process conditions from CAE(.pro file) or create form basic information(without CAE)

The interface consists of four sequential panels:

- Select machine:** A list of injection machines with search and '+ Add Machine' buttons.
- Input part information:** A screen for entering machine info and a 3D model of a part with '+ Add Mold' button.
- Select material information:** A screen for selecting material (e.g., ABS, CHIMEI) with 'Import From Existing Material' and 'Next' buttons.
- Process conditions:** A screen for setting injection parameters like velocity, pressure, and position, with 'Previous' and 'Next' buttons.

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Forum New Released 2024

Moldiverse Forum

Enter Keywords

ASK A QUESTION

All Questions

Filter by: Select Categories All

Questions Per Page: 10

Latest Votes Unanswered

why there is cooling analysis before filling analysis? can I run the FPCTw instead of CFPCtw?
why there is Cooling analysis before Filling analysis? Can I run the FPCW instead of CFPCtw?
Injection
5 views 0 answers 0 votes

RSV format in 2024
Can Moldex3D 2024 export RSV format?
1 view 1 answer 0 votes

How to check packing pressure contribution
How to check packing pressure contribution
22 views 1 answer 1 votes

What method is Moldex3D filling solver is using? Is it FVM or FEA?
What method is Moldex3D filling solver is using?
24 views 1 answer 0 votes

For which parts and materials is it useful to use the non-linear warp solver?
For which parts and materials is it useful to use the non-linear warp solver?
Warp
37 views 1 answer 0 votes

HOT QUESTIONS

- why there is cooling analysis before filling analysis? can I run the FPCTw instead of CFPCtw?
- RSV format in 2024
- How to check packing pressure contribution
- What method is Moldex3D filling solver is using? Is it FVM or FEA?
- For which parts and materials is it useful to use the non-linear warp solver?
- CF在PC/PA/PP等厚壁分析2次C/C其中第一个C到第二个C的变形吗
- 我们公司在使用Inuuc分析，现在要升级大版本，环境变量要怎么设置？
- 灰色成型缺陷分析

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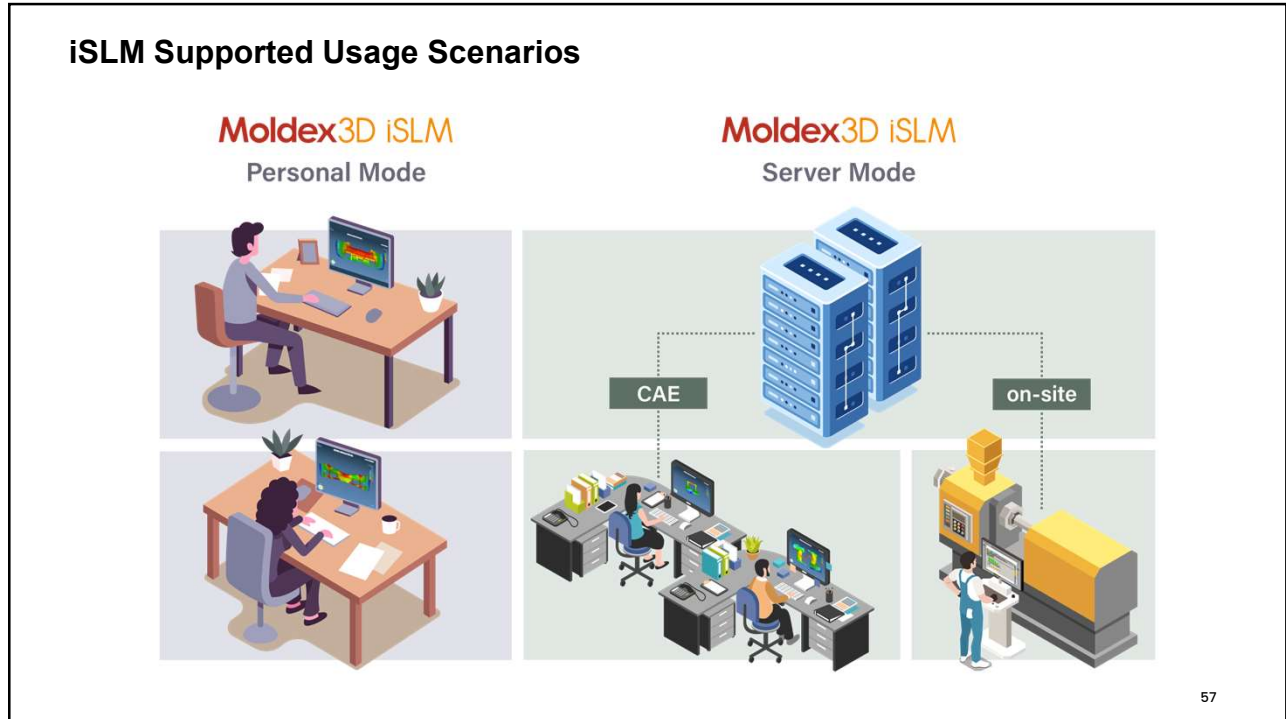
Why iSLM?

User need a system to manage all of the data and extract the useful information.

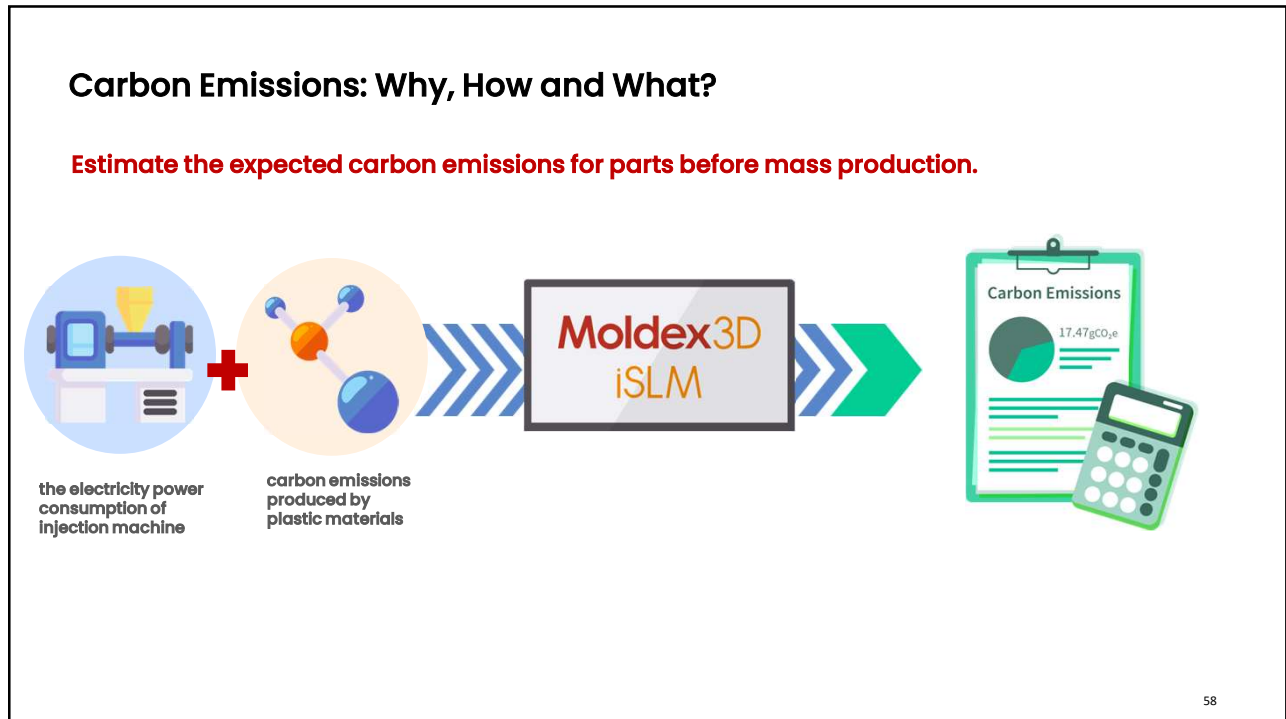
Moldex3D iSLM

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Carbon Emissions Calculation Settings in iSLM

Electricity Carbon Emissions (Power Consumption)

Injection Machine

- Drive Unit
- Heating Unit

Auxiliary Machine

- Mold Temperature Controller
- Mechanical Arm
- Other Power consumption



Electric Wire

- Heating Element Active
- Injection Unit Active
- Clamping Unit Active
- Other Inactive

Add Electric Wires
Cancel
Save

Carbon Emission of Material

Set the carbon emissions of material on Material Database.

Material Database / ABS CHIMEI PA-777D

ABS

ABS CHIMEI PA-777D

Material Information

Material: ABS
 Producer: CHIMEI
 Grade Name: PA-777D
 Status: Active

Customize Field

Note: Ultra-high heat resistance

Carbon Emission Data

Carbon Emissions Per Kilogram: 12 kgCO₂e
 Carbon Emission Notes: Data from Far Eastern New Center

產品碳足跡資訊網

Carbon Footprint Information Platform

碳足跡查詢:

查詢條件: 查詢 清除 查詢結果: 查詢結果數量: 10/10

產品名稱	生產標準名稱	單位	單位	公佈年份	加入我的最愛
茂業, 十二號-聚乙稀製成物(聚乙稀製成物-珠光粉)	黃粉	3,206+0 kgCO ₂ e	公斤(kg)	2013	加入

Carbon Emissions Calculation Report

Moldex3D iSLM

Solutions / Information

Edit Information

CoreTech-08
Gear

FANUC - Disconnected

Estimated Carbon Emissions for the Product

1.07956 gCO₂e

Activity Coefficients

Equipments	Material
Injection Machine: 0461 SUMITOMO D-Esis SP 250/630-2500... Total power consumption per second: 0.0323 kWh	Material: GPPS POLYREX PG-33,Complete VE CH-ME Carbon emissions per gram: 70 gCO ₂ e
Auxiliary Machine: Auxiliary Machine B, Auxiliary Machin... Total power consumption per second: 0.00194 kWh	Total Part Weight: 20 g
Auxiliary Machine C: 1 Total power consumption per second: 0.00194 kWh	Cold Runner Weight: 20 g
Auxiliary Machine D: 1 Total power consumption per second: 0.34278 kWh	Mold: Cavity Count: 1
Mold Closing Time: 2 sec, Filling Time: ...	Factor: Carbon Conversion Factor: 4 (kgCO ₂ e/kWh) 電力排放係數
Packing Time: ... sec, Cooling Time: 2 sec	Product Yield: 100 %
Mold Opening Time: ... sec, Ejection Time: ... sec	Correction Coefficient: 1.22
Cycle Time: 4 sec	

Carbon Emissions (gCO₂e)

Category	Carbon Emissions (gCO ₂ e)
Equipments	6548.8889
Material	2900

Power Consumption Distribution

- Auxiliary Machine: 51.2%
- Injection Machine: 48.8%

Estimated Carbon Emissions for the Product

Download Excel

iSLM Carbon Emissions of the Product

Product: CoreTech-08 (Gear)

Category	Carbon Emissions (gCO ₂ e)
Equipments	6548.8889
Material	2900
Total	9448.8889

Carbon Emissions per Product: 1.07956 gCO₂e

Carbon Emission Calculation for Equipments

Total Power Consumption per Second of Equipments: 0.04472 kWh

Power Consumption per Second of Auxiliary Machine: ...

Power Consumption per Shot: 10.1139 kWh

Carbon Emissions for Equipments in Products: 6548.8889 gCO₂e

Material Carbon Emission Calculation

Total Weight per Shot: 40 g

Weight per Product: 40 g

Carbon Emissions for Materials in Products: 884.8 gCO₂e

Total Estimated Carbon Emissions: 5895.9375 gCO₂e

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60

30



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mid Moulding Innovation Day 2024

Benefits of Moldiverse

4M1E:
Material
Method
Man
Machine
Environment

The diagram features a central 'Moldiverse' logo (a stylized 'M') surrounded by a circular flow of five icons: MATERIAL (molecular structure), METHOD (computer monitor), ENVIRONMENTS (cloud with globe), MAN (open book), and MACHINE (factory building). Arrows indicate a clockwise flow between these elements, with 'Moldiverse' at the center of the cycle.

Benefits of Moldiverse

The 4M1E-based cloud portfolio breaks down organizational silos by connecting workflows and fostering team collaboration.

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Moldiverse Security

End-to-End Security
Moldiverse is hosted on Microsoft Azure which provides end-to-end security and privacy features built in. For more information, please visit <https://azure.microsoft.com/en-us/explore/trusted-cloud>

ISO Certification
ISO 27001 is considered the highest international standard of information security as it relates to customer data and Moldiverse is currently following an audit process to obtain the certification.

Vulnerability Assessment
Third-party assessment was carried out using Nessus®, the most trusted vulnerability assessment solution.

#1
in Accuracy

Nessus has the industry's lowest false positive rate with six-sigma accuracy.
*.32 defects per 1 million scans

Image credit: tenable

#1
in Coverage

Nessus has the deepest and broadest vulnerability coverage in the industry.
See how we compare.

#1
in Adoption

Nessus is trusted by tens of thousands of organizations, with 2 million downloads worldwide.

#1
in Hearts and Minds

Don't just take our word for it. See for yourself why security practitioners around the world put their trust in Nessus.

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Non-Moldex3D Software User

Moldex3D Software User

Moldiverse Paying User

Access only

- University**
 - Open Course
 - Moldex3D Software Training (7 chapters)
 - MPE (4 chapters)
- Material Hub Cloud**
 - Material Selection Guidance

Full Access

- University**
 - Open Course
 - **Moldex3D Software Training** (w/ 2024 active software license)
- Material Hub Cloud**
 - Material Selection Guidance
 - **Other Functions** (w/ 2024 active software license)

Access to Purchased Service

- University**
 - Open Course
 - Moldex3D Software Training
 - **MPE**
- Material Hub Cloud**
 - Material Selection Guidance
 - Other Functions
- iMolding Hub**
 - **Machine Characterization**

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Moldiverse



**RESHAPING PLASTIC MOLDING
WITH CLOUD BRILLIANCE**

The cloud ecosystem offering polymer material data, smart molding solutions, learning content and more.

Moldiverse Offers

Moldiverse Provides

Learning
Watch on-demand webinars and training tutorials 24/7

Machine
Shorten mold tryout time with machine digital twinning.

Material
The comprehensive material database offers a 30-day free trial

Moldex3D Trial
Download a 30-day free trial of Moldex3D

Why Moldiverse

Flexibility
Cloud-based services allow easy access anytime, anywhere, on any device

Data Management
Make informed decisions with centralized smart data management

Acceleration
Speed up digital transformation by breaking down silos

- U

01 University

Watch on-demand webinars, software training and plastic molding tutorials 24/7.

 - Moldex3D Software Training
 - The 6-course training contains 40+ demo videos by Moldex3D software experts.
 - Open Course
 - Topics include best practice, tips & tricks, and advanced application/processes.
 - Moldex3D Plastics e-Learning
 - the step-by-step guide to the injection molding process with virtual molding machine operation. Course contains 5 topics with quizzes.
- M

02 Material Hub Cloud

The most comprehensive material database for the plastics processing industry. 30-day free trial available.

 - Material Database Viewer
 - Design Calculator
 - Alternative Material
 - Material Data Fitting
 - Material Selection Guidance
 - Digital Material Generation
 - Material Comparison
 - Supplier Data Platform
- M

03 iMolding Hub

Shorten mold tryout time by bridging the gap between molding simulation results and actual machine responses. Optimize machine settings with the Mold Tryout Advisor.

 - Machine Database
 - Machine Characterization Service
- M

04 Moldex3D Trial

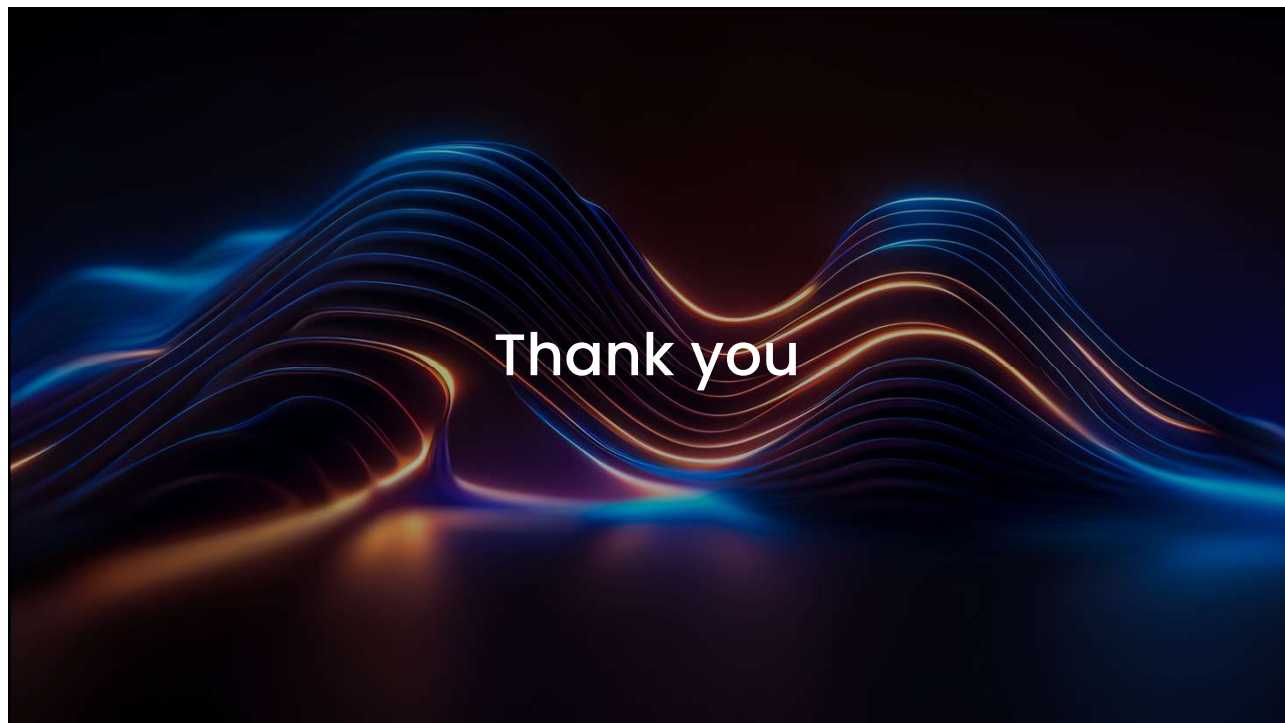
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Register now



SIGN UP FOR FREE

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