

## Material Center

### The Most Reliable Material Characterization

Accurate material data is essential for successful simulation and manufacturing process development. Moldex3D Material Center has the best-in-class equipment to help customers obtain reliable material data. We also offer data fitting, material file generation and more for precise simulation.



**PLM EGYPT**  
Industrial solutions for  
**CAD/CAM/CAE/Tooling/CNC**  
Application



<b>PLM EGYPT</b>	
Industrial Solutions for CAD /CAM /CAE /Tooling /Inspection Application	
Address	1 DR Mohamed abou state from 23 Joseph Tito St. New Nozha, Cairo, Egypt
Telefax	+02 26222261
Mobile:	+02 01000070422      +02 011 29500936
Zip	4473215
E.MAIL	INFO@Egyptplm.COM
Website	www.Egyptplm.COM

# What Can We Provide?

- Thermoplastic / Thermoset / Fabric-RTM/ IC Packaging material measurement
- Customized Services of Test Items, Consulting, and Report
- Data Fitting & Material File Generation

**ISO 17025 CERTIFIED**

## Material Characterization Services

### Thermoplastic

● Essential features contained | ○ Optional features

		Fill, Pack, Cool	Fill, Pack, Cool, Warp	Fill, Pack, Cool, Warp (Enhance)
Rheology	Shear Viscosity (High Shear)	●	●	●
	Shear Viscosity(Low Shear)			○
	Fluid Viscoelastic	○	○	○
Thermal	PVT	●	●	●
	Thermal Conductivity	●	●	●
	Heat Capacity	●	●	●
Mechanical	Tensile Modulus		●	●
	Poisson Ratio		●	●
	CTE		●	●
	Tensile Modulus (Anisotropic)*			○
	Poisson Ratio (Anisotropic)*			○
	CTE (Anisotropic)*			○
	In-Plane Shear Modulus*			○
Kinetic	Structure Viscoelastic			●
	Crystalline		○	○

\*Anisotropic property is for plastic with fiber.

### Thermoset

		Fill, Cure	Fill, Cure, Warp Post Mold Cure
Rheology	Reactive Viscosity	●	●
Kinetic	Curing Kinetics	●	●
	PVTC	●	●
Thermal	Thermal Conductivity	●	●
	Heat Capacity	●	●
	Tensile Modulus		●
Mechanical	Poisson Ratio		●
	CTE		●
	Structure Viscoelastic (Partial Curing)		●

### Fabric

		Fill, Cure
Fabric Property	Permeability	●
	Porosity	●

### Advance IC Packaging - Underfill

		Fill
Capillary Flow	Contact Angle	●
	Surface Tension	●

### List of Instruments

- DHR-3 (TA)
- MCR-502 (Anton Paar)
- Rheograph RG-25(Gottfert)
- MDR-A1 (U-CAN)
- DSC-8500 (Perkin Elmar)
- PVTC-A1 (U-CAN)
- FOAMAT 285 (Format)
- EASYPERM
- DMA-Q850 (TA)
- Instron 5966 (Instron)
- TMA-4000 (Perkin Elmar)
- PVT-6000 (GoTech)
- DSA 100 (KRÜSS)



**PLM EGYPT**  
 Industrial Solutions for CAD /CAM /CAE /Tooling /Inspection Application

**Address** 1 DR Mohamed abou state from 23 Joseph Tito St. New Nozha, Cairo, Egypt

**Telefax** +02 26222261

**Mobile:** +02 01000070422 +02 011 29500936

**Zip** 4473215

**E.MAIL** INFO@Egyptplm.COM

**Website** www.Egyptplm.COM