

LG MABS TR552

LG Chem Ltd. - Methyl Methacrylate / ABS

Friday, May 24, 2019

General Information

Product Description

Description

- Transparency, High Impact

Applications

- Electric & Electronic Products

General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> • Asia Pacific • Europe • Latin America • North America
Features	<ul style="list-style-type: none"> • High Clarity • High Impact Resistance
Uses	• Electrical/Electronic Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Clear/Transparent
Processing Method	• Injection Molding

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ³ (23°C, 3.20 mm, Injection Molded)	1650	MPa	ASTM D638
Tensile Strength ³			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	41.0	MPa	
Tensile Elongation ³			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	> 5.0	%	
Tensile Elongation ³			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	> 15	%	
Flexural Modulus ⁴ (23°C, 3.20 mm, Injection Molded)	1850	MPa	ASTM D790
Flexural Strength ⁴ (23°C, 3.20 mm, Injection Molded)	63.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm, Injection Molded	80	J/m	
-30°C, 6.40 mm, Injection Molded	80	J/m	
23°C, 3.20 mm, Injection Molded	220	J/m	
23°C, 6.40 mm, Injection Molded	210	J/m	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	100		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	82.0	°C	

UL and the UL logo are trademarks of UL LLC © 2019. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

LG MABS TR552

LG Chem Ltd. - Methyl Methacrylate / ABS

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ASTM D1525 ⁶
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm		HB	
3.0 mm		HB	
Optical	Nominal Value	Unit	Test Method
Transmittance (3200 µm, Injection Molded)	90.0	%	ASTM D1003
Haze (Injection Molded)	2.20	%	ASTM D1003

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	190 to 210	°C
Middle Temperature	200 to 220	°C
Front Temperature	210 to 230	°C
Nozzle Temperature	210 to 240	°C
Processing (Melt) Temp	210 to 240	°C
Mold Temperature	40 to 60	°C
Back Pressure ⁷	30.0 to 60.0	MPa
Screw Speed	30 to 60	rpm

Injection Notes

Minimum Moisture Content: 0.01%

Notes

¹ Typical properties: these are not to be construed as specifications.

² 23°C

³ 50 mm/min

⁴ 15 mm/min

⁵ Edgewise

⁶ Rate A (50°C/h), Loading 2 (50 N)

⁷ Hydraulic Type