

# LG MABS TR557

Methyl Methacrylate / ABS

LG Chem Ltd.

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

#### Description

- Transparency, High Impact

#### Applications

- Electric & Electronic Products

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E67171-248422</a> • <a href="#">E248280-100694458</a>
Search for UL Yellow Card	• <a href="#">LG Chem Ltd.</a>
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• High Clarity • High Impact Resistance
Uses	• Electrical/Electronic Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Clear/Transparent
Processing Method	• Injection Molding
Multi-Point Data	• Specific Heat vs. Temperature (ISO 11403-2)

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.09 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	21 g/10 min	ASTM D1238

Mechanical	Nominal Value Unit	Test Method
Tensile Strength <sup>4</sup> (Yield, 3.20 mm)	46.1 MPa	ASTM D638
Tensile Elongation <sup>4</sup> (Break, 3.20 mm)	30 %	ASTM D638
Flexural Modulus <sup>5</sup> (3.20 mm)	2160 MPa	ASTM D790
Flexural Strength <sup>5</sup> (3.20 mm)	68.6 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		ASTM D256
23°C, 3.20 mm	170 J/m	
23°C, 6.40 mm	170 J/m	

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	107	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
1.8 MPa, Unannealed, 6.40 mm	81.0 °C	

Optical	Nominal Value Unit	Test Method
Transmittance	90.0 %	ASTM D1003
Haze	2.0 %	ASTM D1003

Injection	Nominal Value Unit
Drying Temperature	80 to 90 °C
Drying Time	2.0 to 4.0 hr
Rear Temperature	180 to 200 °C
Middle Temperature	190 to 210 °C
Front Temperature	200 to 220 °C
Nozzle Temperature	190 to 220 °C
Processing (Melt) Temp	190 to 220 °C



Injection	Nominal Value Unit
Mold Temperature	40 to 60 °C
Back Pressure	29.4 to 58.8 MPa
Screw Speed	30 to 60 rpm

#### Injection Notes

Minimum Moisture Content: 0.01%

#### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> 50 mm/min

<sup>5</sup> 15 mm/min

