

**General Information**
**Product Description**

## Description

- Transparency, High Impact, Softness

## Application

- Artificial nail

**General**

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

**ASTM & ISO Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity <sup>2</sup>	1.06	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	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 <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	1350	MPa	ASTM D638
Tensile Strength <sup>3</sup>			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	33.0	MPa	
Tensile Elongation <sup>3</sup>			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	> 15	%	
Flexural Modulus <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	1500	MPa	ASTM D790
Flexural Strength <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	49.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm, Injection Molded	240	J/m	
-30°C, 6.40 mm, Injection Molded	90	J/m	
23°C, 3.20 mm, Injection Molded	90	J/m	
23°C, 6.40 mm, Injection Molded	240	J/m	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	88		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	74.0	°C	
Vicat Softening Temperature	81.0	°C	ASTM D1525 <sup>5</sup>
Optical	Nominal Value	Unit	Test Method
Transmittance	89.0	%	ASTM D1003

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# LG MABS TR530F

## LG Chem Ltd. - Methyl Methacrylate / ABS

Optical	Nominal Value	Unit	Test Method
Haze	3.00	%	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 <sup>6</sup>	30.0 to 60.0	MPa
Screw Speed	30 to 80	rpm

### Injection Notes

Minimum Moisture Content: 0.01%

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 26°C

<sup>3</sup> 50 mm/min

<sup>4</sup> 15 mm/min

<sup>5</sup> Rate A (50°C/h), Loading 2 (50 N)

<sup>6</sup> Hydraulic Type