

LG ABS TR557

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

Description
Transparency, High Impact
Applications
Electric&Electronic Products

General Information			
UL YellowCard	E67171-248422	E248280-100694458	
Features	High Clarity		
Uses	Electrical/Electronic Applications		
Appearance	Clear/Transparent		
Multi-Point Data	Specific Heat vs. Temperature (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	21	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	47.1	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	30	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2210	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	71.6	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	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	81.0	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Haze	2.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Transparency	90	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.010	%	
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
Mold Temperature	40.0 to 60.0	°C
Back Pressure	29.4 to 58.8	MPa
Screw Speed	30 to 60	rpm

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 15 mm/min |
| 4. | 15 mm/min |

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