

LG ABS CRI558M3

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Saturday, October 12, 2024

General Information

Product Description

Description

CRI558M3, a Transparent Pre-Consumer Recycled ABS product for injection molding, contains 30% PCR resin and is designed to have the same physical properties as standard TR ABS, having good transparency and balance between the impact strength and fluidity.

Key Features

Transparency, Recycled ABS (PCR 30%)

Application

Washing Machine, Refrigerator, Electrical/Electronic Products, Miscellaneous Goods

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
Recycled Content	• Post-Consumer (PCR), 30%		
Features	• Good Flow	• Good Impact Resistance	
Uses	• Appliances	• Electrical Parts	• Electrical/Electronic Applications
Appearance	• Clear/Transparent		
Processing Method	• Injection Molding		

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ¹	1.10	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	26	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	51.0	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	> 50	%	
Flexural Modulus ³ (23°C, 6.40 mm, Injection Molded)	2430	MPa	ASTM D790
Flexural Strength ³ (23°C, 6.40 mm, Injection Molded)	81.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm, Injection Molded)	120	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	111		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁴			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	86.0	°C	
Optical	Nominal Value	Unit	Test Method
Light Transmittance (3200 µm, Injection Molded)	89.5	%	ASTM D1003
Haze (Injection Molded)	1.80	%	ASTM D1003

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	200 to 255	°C
Mold Temperature	40 to 80	°C
Screw Speed	30 to 60	rpm

Notes

¹ 23°C

² 50 mm/min

³ 10 mm/min

⁴ Edgewise