

Lupos® SG5009

LG Chem Ltd. - Acrylonitrile Styrene Acrylate + PMMA

Friday, May 24, 2019

General Information

Product Description

Description

General Purpose, Scratch Resistant

Application

Automotive Part (Radiator Grill, Side Mirror)

Electric & Electronic(Housing, Components)

General

Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Features	• General Purpose	• Good Scratch Resistance
Uses	• Automotive Applications • Electrical Housing	• Electrical Parts • Electrical/Electronic Applications
Processing Method	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	5.0	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 Strength ² (Yield, 23°C, 3.20 mm)	49.0	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	20	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	2060	MPa	ASTM D790
Flexural Strength ³ (23°C, 3.20 mm, Injection Molded)	68.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm, Injection Molded)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	80.0	°C	
Vicat Softening Temperature	92.0	°C	ASTM D1525 ⁴
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45°	78		
60°	80		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	70 to 80	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%

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Injection	Nominal Value	Unit
Rear Temperature	210 to 230	°C
Middle Temperature	220 to 250	°C
Front Temperature	240 to 260	°C
Nozzle Temperature	220 to 240	°C
Processing (Melt) Temp	220 to 260	°C
Mold Temperature	40 to 60	°C
Back Pressure	68.6 to 88.3	MPa
Screw Speed	< 80	rpm

Notes

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

² 5.0 mm/min

³ 1.0 mm/min

⁴ Rate A (50°C/h), Loading 2 (50 N)