

LG Chemical LG713 ABS, Low Gloss

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

Material Notes:

Feature: Extrusion Molding, Low Gloss, ExtrusionApplication: Automotive Interior Housing (Cover Etc)CAS No. 25120-20-1, 9003-56-9 and 31621-07-5Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LG713-ABS-Low-Gloss.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Extrusion Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	4.0 g/10 min @Load 10.0 kg, Temperature 220 Â°C	4.0 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	96	96	ASTM D785
Tensile Strength, Yield	37.3 MPa @Thickness 3.20 mm	5400 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	40 % @Thickness 3.20 mm	40 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	60.8 MPa @Thickness 3.20 mm	8820 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	1.92 GPa @Thickness 3.20 mm	279 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	2.26 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	4.22 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	2.55 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	4.78 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256
	1.08 J/cm	2.02 ft-lb/in	

Izod Impact, Unnotched Mechanical Properties	Metric	English	ASTM D256 Comments
	@ Thickness 6.40 mm, Temperature -30.0 Â°C	@ Thickness 0.252 in, Temperature -22.0 Â°F	
	1.18 J/cm	2.20 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -30.0 Â°C	@Thickness 0.126 in, Temperature -22.0 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	97.0 Â°C	207 Â°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	95.0 Â°C	203 Â°F	50Â°C/h; ASTM D1525
	@Load 5.00 kg	@Load 11.0 lb	

Optical Properties	Metric	English	Comments
Gloss	30 %	30 %	45Â°; ASTM D2457

Processing Properties	Metric	English	Comments
Zone 1	180 - 210 Â°C	356 - 410 Â°F	Extrusion Molding
Zone 2	190 - 230 Â°C	374 - 446 Â°F	Extrusion Molding
Zone 3	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Zone 4	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Adapter Temperature	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Die Temperature	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Melt Temperature	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Roll Temperature	60.0 - 90.0 Â°C	140 - 194 Â°F	Bottom, Extrusion
	70.0 - 90.0 Â°C	158 - 194 Â°F	Middle, Extrusion
	70.0 - 100 Â°C	158 - 212 Â°F	Top, Extrusion
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°F	Extrusion Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Extrusion Molding

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