

LG Chemical BM662 ABS, Heat Resistance

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

Material Notes:

Feature: Blow Molding, Heat Resistance
 Application: Automotives Exterior Housing (Spoiler, Bumper Guard etc.)
 CAS No. 25120-20-1, 9003-56-9, 25747-74-7 and 9003-54-7
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-BM662-ABS-Heat-Resistance.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Blow 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	4.4 g/10 min @Load 10.0 kg, Temperature 220 Å°C	4.4 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	102	102	ASTM D785
Tensile Strength, Yield	46.1 MPa @Thickness 3.20 mm	6680 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	20 % @Thickness 3.20 mm	20 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	71.6 MPa @Thickness 3.20 mm	10400 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.26 GPa @Thickness 3.20 mm	327 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	1.96 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	3.67 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256
	2.16 J/cm @Thickness 6.40 mm, Temperature 23.0 Å°C	4.04 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Å°F	ASTM D256
	0.981 J/cm	1.84 ft-lb/in	

Impact Properties	Metric	English	Comments
Impact Properties	@ Thickness 6.40 mm, Temperature -30.0 Â°C	@ Thickness 0.252 in, Temperature -22.0 Â°F	ASTM D256
	0.981 J/cm	1.84 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)	100 Â°C @Thickness 6.40 mm	212 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	93.0 Â°C @Thickness 6.40 mm	199 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	100 Â°C @Load 5.00 kg	212 Â°F @Load 11.0 lb	50Â°C/h; ASTM D1525

Processing Properties	Metric	English	Comments
Zone 1	180 - 200 Â°C	356 - 392 Â°F	Blow Molding
Zone 2	190 - 210 Â°C	374 - 410 Â°F	Blow Molding
Zone 3	190 - 210 Â°C	374 - 410 Â°F	Blow Molding
Zone 4	200 - 220 Â°C	392 - 428 Â°F	Blow Molding
Adapter Temperature	220 Â°C	428 Â°F	Blow Molding
Die Temperature	220 Â°C	428 Â°F	Blow Molding
Melt Temperature	200 - 210 Â°C	392 - 410 Â°F	Blow Molding
Drying Temperature	80.0 - 90.0 Â°C	176 - 194 Â°F	Blow Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Blow Molding

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