

Star Plastics ABSGF20 Molding Grade ABS With 20% Glass

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 20% Glass Fiber Filled

Material Notes:

Information provided by Star Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Star-Plastics-ABSGF20-Molding-Grade-ABS-With-20-Glass.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Maximum Moisture Content	0.15	0.15	
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
Melt Flow	5.0 g/10 min @Load 3.80 kg, Temperature 230 Å°C	5.0 g/10 min @Load 8.38 lb, Temperature 446 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D638
Tensile Modulus	4.90 GPa	710 ksi	ASTM D638
Flexural Yield Strength	84.8 MPa	12300 psi	ASTM D790
Flexural Modulus	5.03 GPa	730 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	73Å°F, 0.125 in.; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	98.9 Å°C	210 Å°F	unannealed, .125in; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	188 - 218 Å°C	370 - 425 Å°F	
Middle Barrel Temperature	204 - 232 Å°C	400 - 450 Å°F	
Front Barrel Temperature	218 - 246 Å°C	425 - 475 Å°F	
Nozzle Temperature	218 - 274 Å°C	425 - 525 Å°F	
Melt Temperature	218 - 274 Å°C	425 - 525 Å°F	
Mold Temperature	48.9 - 76.7 Å°C	120 - 170 Å°F	

Processing Properties	Metric	English	Comments
Dry Time	2 - 4 hour	2 - 4 hour	
Back Pressure	0.172 - 0.689 MPa	25.0 - 100 psi	
Screw Speed	25 - 75 rpm	25 - 75 rpm	

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