

Star Plastics ABSGF10 Molding Grade ABS With 10% Glass

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 10% 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-ABSGF10-Molding-Grade-ABS-With-10-Glass.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Maximum Moisture Content	0.15	0.15	
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 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	44.8 MPa	6500 psi	ASTM D638
Tensile Modulus	2.90 GPa	420 ksi	ASTM D638
Flexural Yield Strength	74.5 MPa	10800 psi	ASTM D790
Flexural Modulus	3.00 GPa	435 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)	93.3 Å°C	200 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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