

Star Plastics PC/ABSFR9002 Molding Grade PC/ABSFR

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Information provided by Star Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Star-Plastics-PCABSFR9002-Molding-Grade-PCABSFR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	17 g/10 min @Load 2.16 kg, Temperature 260 Â°C	17 g/10 min @Load 4.76 lb, Temperature 500 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	61.4 MPa	8900 psi	ASTM D638
Tensile Modulus	2.55 GPa	370 ksi	ASTM D638
Flexural Yield Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	2.59 GPa	375 ksi	ASTM D790
Izod Impact, Notched	5.34 J/cm	10.0 ft-lb/in	73Â°F, 0.125 in.; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	93.3 Â°C	200 Â°F	unannealed, .125in; ASTM D648
Flammability, UL94	V-0	V-0	.062in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	232 - 260 Â°C	450 - 500 Â°F	
Middle Barrel Temperature	246 - 274 Â°C	475 - 525 Â°F	
Front Barrel Temperature	246 - 288 Â°C	475 - 550 Â°F	
Nozzle Temperature	246 - 288 Â°C	475 - 550 Â°F	
Melt Temperature	246 - 288 Â°C	475 - 550 Â°F	

Processing Properties	Metric	English	Comments
Drying Temperature	82.2 - 110 °C	180 - 230 °F	
Dry Time	3 - 4 hour	3 - 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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