

Star Plastics PC20NBR Molding Grade PC with Release

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Information provided by Star Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Star-Plastics-PC20NBR-Molding-Grade-PC-with-Release.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	20 g/10 min @Load 1.20 kg, Temperature 300 Â°C	20 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	57.2 MPa	8300 psi	ASTM D638
Tensile Modulus	2.34 GPa	340 ksi	ASTM D638
Flexural Yield Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	NB	NB	73Â°F, 0.125 in.; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	127 Â°C	260 Â°F	unannealed, .125in; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	246 - 274 Â°C	475 - 525 Â°F	
Middle Barrel Temperature	260 - 288 Â°C	500 - 550 Â°F	
Front Barrel Temperature	274 - 302 Â°C	525 - 575 Â°F	
Nozzle Temperature	274 - 302 Â°C	525 - 575 Â°F	
Melt Temperature	274 - 302 Â°C	525 - 575 Â°F	
Mold Temperature	71.1 - 98.9 Â°C	160 - 210 Â°F	

Processing Properties	Metric	English	Comments
Dry Time	4 hour	4 hour	
Back Pressure	0.345 - 1.38 MPa	50.0 - 200 psi	
Screw Speed	40 - 100 rpm	40 - 100 rpm	

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