

Star Plastics PC1510R 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-PC1510R-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	16 g/10 min @Load 1.20 kg, Temperature 300 Â°C	16 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	58.6 MPa	8500 psi	ASTM D638
Tensile Modulus	2.38 GPa	345 ksi	ASTM D638
Flexural Yield Strength	86.2 MPa	12500 psi	ASTM D790
Flexural Modulus	2.38 GPa	345 ksi	ASTM D790
Izod Impact, Notched	6.41 J/cm	12.0 ft-lb/in	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	271 - 288 Â°C	520 - 550 Â°F	
Middle Barrel Temperature	277 - 299 Â°C	530 - 570 Â°F	
Front Barrel Temperature	288 - 316 Â°C	550 - 600 Â°F	
Nozzle Temperature	288 - 316 Â°C	550 - 600 Â°F	
Melt Temperature	288 - 316 Â°C	550 - 600 Â°F	
Mold Temperature	76.7 - 104 Â°C	170 - 220 Â°F	

Processing Properties	Metric	English	Comments
Dry Time	4 hour	4 hour	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Screw Speed	40 - 75 rpm	40 - 75 rpm	

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