

Star Plastics PC/PBT7820 Molding Grade PC/PBT

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Information provided by Star Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Star-Plastics-PCPBT7820-Molding-Grade-PCPBT.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	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	ASTM D955
Melt Flow	10 g/10 min @Load 3.80 kg, Temperature 230 Â°C	10 g/10 min @Load 8.38 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D638
Tensile Modulus	1.93 GPa	280 ksi	ASTM D638
Flexural Yield Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.03 GPa	295 ksi	ASTM D790
Izod Impact, Notched	6.67 J/cm	12.5 ft-lb/in	73Â°F, 0.125 in.; ASTM D256

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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	243 - 271 Â°C	470 - 520 Â°F	
Middle Barrel Temperature	249 - 277 Â°C	480 - 530 Â°F	
Front Barrel Temperature	257 - 282 Â°C	495 - 540 Â°F	
Nozzle Temperature	254 - 274 Â°C	490 - 525 Â°F	
Melt Temperature	260 - 279 Â°C	500 - 535 Â°F	
Mold Temperature	65.6 Â°C	150 Â°F	

Processing Properties Drying Temperature	Metric 121 A °C	English 250 A °F	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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