

PTS PCA-3015 Low Temperature Impact PC/PBT Alloy

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

Material Notes:

Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_PTS-PCA-3015-Low-Temperature-Impact-PCPBT-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	24 hours at 73°F; ASTM D570
Linear Mold Shrinkage	0.0075 cm/cm	0.0075 in/in	ASTM D955
Melt Flow	2.0 g/10 min @Load 5.00 kg, Temperature 250 °C	2.0 g/10 min @Load 11.0 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.0 MPa @Thickness 3.17 mm	7400 psi @Thickness 0.125 in	ASTM D638
Elongation at Break	150 % @Thickness 3.17 mm	150 % @Thickness 0.125 in	ASTM D638
Flexural Yield Strength	85.5 MPa @Thickness 3.17 mm	12400 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	1.86 GPa @Thickness 3.17 mm	270 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	8.01 J/cm @Thickness 3.17 mm	15.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	116 °C	241 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	96.0 °C	205 °F	ASTM D648

Processing Properties	Metric	English	Comments
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Rear Barrel Temperature Processing Properties	232 - 243 °C Metric	450 - 470 °F English	Comments
Middle Barrel Temperature	238 - 254 °C	460 - 490 °F	
Front Barrel Temperature	246 - 268 °C	475 - 515 °F	
Nozzle Temperature	246 - 266 °C	475 - 510 °F	
Melt Temperature	243 - 279 °C	470 - 535 °F	
Mold Temperature	65.6 - 82.2 °C	150 - 180 °F	
Drying Temperature	110 °C	230 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Back Pressure	0.000 - 3.45 MPa	0.000 - 500 psi	
Shot Size	50 - 80 %	50 - 80 %	
Screw Speed	20 - 60 rpm	20 - 60 rpm	

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