

PTS PCA-3013 High Flow 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-3013-High-Flow-PCPBT-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	24 hours at 73°F; ASTM D570
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM D955
Melt Flow	20 g/10 min @Load 5.00 kg, Temperature 250 °C	20 g/10 min @Load 11.0 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.7 MPa @Thickness 3.17 mm	7500 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	63.4 MPa @Thickness 3.17 mm	9200 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	1.83 GPa @Thickness 3.17 mm	265 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	6.94 J/cm @Thickness 3.17 mm	13.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	ASTM D648
UL RTI, Electrical	75.0 °C	167 °F	
UL RTI, Mechanical with Impact	75.0 °C	167 °F	
UL RTI, Mechanical without Impact	75.0 °C	167 °F	

Thermal Properties Flammability, UL 94	^{UL94} Metric	^{UL94} English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	238 - 249 °C	460 - 480 °F	
Middle Barrel Temperature	243 - 260 °C	470 - 500 °F	
Front Barrel Temperature	252 - 274 °C	485 - 525 °F	
Nozzle Temperature	252 - 263 °C	485 - 505 °F	
Melt Temperature	249 - 271 °C	480 - 520 °F	
Mold Temperature	65.6 - 82.2 °C	150 - 180 °F	
Drying Temperature	121 °C	250 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Back Pressure	1.72 - 3.45 MPa	250 - 500 psi	
Shot Size	50 - 80 %	50 - 80 %	
Screw Speed	25 - 50 rpm	25 - 50 rpm	

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