

PTS PCA-30G00 Impact Modified Polycarbonate/PBT Alloy

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

Material Notes:

For Cold Temperature Impact. Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_PTS-PCA-30G00-Impact-Modified-PolycarbonatePBT-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Water Absorption	0.030 % @Time 86400 sec	0.030 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0075 - 0.010 cm/cm	0.0075 - 0.010 in/in	ASTM D955
Melt Flow	15 g/10 min @Load 3.80 kg, Temperature 250 °C	15 g/10 min @Load 8.38 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	53.0 MPa @Thickness 3.17 mm	7690 psi @Thickness 0.125 in	ASTM D638
Elongation at Break	115 % @Thickness 3.17 mm	115 % @Thickness 0.125 in	ASTM D638
Flexural Strength	82.0 MPa @Thickness 3.17 mm	11900 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	2.00 GPa @Thickness 3.17 mm	290 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	5.34 J/cm @Temperature -20.0 °C	10.0 ft-lb/in @Temperature -4.00 °F	ASTM D256
	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)	101 °C	214 °F	ASTM D648

Deflection Temperature at 1.8 MPa Thermal Properties (104 psi)	98.9 °C Metric	210 °F English	ASTM D648 Comments
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	
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

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