

PTS PCA-FR Eco-Friendly, High Flow, Flame Retardant PC/ABS Alloy

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

This is a non-halogenated flame retardant grade. Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_PTS-PCA-FR-Eco-Friendly-High-Flow-Flame-Retardant-PCABS-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	16 g/10 min @Load 2.20 kg, Temperature 260 °C	16 g/10 min @Load 4.85 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa @Thickness 3.17 mm	8990 psi @Thickness 0.125 in	ASTM D638
Elongation at Break	40 % @Thickness 3.17 mm	40 % @Thickness 0.125 in	ASTM D638
Flexural Yield Strength	96.0 MPa @Thickness 3.17 mm	13900 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	2.57 GPa @Thickness 3.17 mm	373 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	5.34 J/cm @Thickness 3.17 mm	10.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	ASTM D648
UL RTI, Electrical	60.0 °C	140 °F	
UL RTI, Mechanical with Impact	60.0 °C	140 °F	
UL RTI, Mechanical without Impact	60.0 °C	140 °F	
Flammability, UL94	V-0	V-0	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	232 - 266 °C	450 - 510 °F	
Middle Barrel Temperature	246 - 274 °C	475 - 525 °F	
Front Barrel Temperature	246 - 288 °C	475 - 550 °F	
Nozzle Temperature	246 - 288 °C	475 - 550 °F	
Melt Temperature	246 - 288 °C	475 - 550 °F	
Mold Temperature	57.2 - 85.0 °C	135 - 185 °F	
Drying Temperature	96.1 °C	205 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Injection Pressure	68.9 - 110 MPa	10000 - 16000 psi	
Back Pressure	0.172 - 0.689 MPa	25.0 - 100 psi	
Screw Speed	25 - 75 rpm	25 - 75 rpm	

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