

PTS PCA-1012 High Impact Polycarbonate/ABS Alloy

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

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-1012-High-Impact-PolycarbonateABS-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	24 hours at 73°F; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.2 MPa @Thickness 3.17 mm	8010 psi @Thickness 0.125 in	ASTM D638
Elongation at Break	125 % @Thickness 3.17 mm	125 % @Thickness 0.125 in	ASTM D638
Flexural Yield Strength	82.7 MPa @Thickness 3.17 mm	12000 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	2.21 GPa @Thickness 3.17 mm	321 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	6.41 J/cm @Thickness 3.17 mm	12.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	216 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	221 - 229 °C	430 - 445 °F	
Middle Barrel Temperature	224 - 235 °C	435 - 455 °F	
Front Barrel Temperature	229 - 241 °C	445 - 465 °F	
Nozzle Temperature	232 - 243 °C	450 - 470 °F	
Melt Temperature	238 - 254 °C	460 - 490 °F	

Mold Temperature Processing Properties	68.3 - 87.8 °C Metric	155 - 190 °F English	Comments
Drying Temperature	104 °C	220 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Injection Pressure	68.9 - 138 MPa	10000 - 20000 psi	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Shot Size	50 - 80 %	50 - 80 %	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

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