

PTS PCA-1011 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-1011-High-Impact-PolycarbonateABS-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.005 - 0.007 cm/cm	0.005 - 0.007 in/in	ASTM D955
Melt Flow	11 g/10 min	11 g/10 min	
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
	@Thickness 3.17 mm	@Thickness 0.125 in	
Elongation at Break	115 %	115 %	ASTM D638
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Strength	83.0 MPa	12000 psi	ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched	5.34 J/cm	10.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	128 °C	262 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	221 - 229 °C	430 - 445 °F	

Processing Properties	Metric	English	Comments
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	68.3 - 87.8 °C	155 - 190 °F	
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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