

Polymer Resources PC/ASA-GP2 Polycarbonate/ASA Alloy

Category : Polymer , Thermoplastic , ASA Polymer , Polycarbonate (PC)

Material Notes:

Acrylonitrile Styrene Acrylate + Polycarbonate Preliminary Data Process: Injection Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-PCASA-GP2-PolycarbonateASA-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	8.0 - 18 g/10 min @Load 10.0 kg, Temperature 220 °C	8.0 - 18 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.7 MPa	7500 psi	ASTM D638
Tensile Strength, Yield	58.6 MPa	8500 psi	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790
Izod Impact, Notched	2.14 J/cm @Temperature 22.8 °C	4.00 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	36.2 J	26.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	102 °C	215 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.8 °C	190 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	232 - 243 °C	450 - 470 °F	
Middle Barrel Temperature	243 - 254 °C	470 - 490 °F	
Front Barrel Temperature	254 - 271 °C	490 - 520 °F	

Melt Temperature Processing Properties	254 - 271 °C Metric	490 - 520 °F English	Comments
Mold Temperature	54.4 - 71.1 °C	130 - 160 °F	
Drying Temperature	87.8 - 98.9 °C	190 - 210 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

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