

Diamond Polymers ASA/PC TA-40B

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

Material Notes:

Description: ASA/Polycarbonate Alloy Information provided by Diamond Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-ASAPC-TA-40B.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	10 g/10 min @Load 10.0 kg, Temperature 220 °C	10 g/10 min @Load 22.0 lb, Temperature 428 °F	Procedure A; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Yield	62.1 MPa	9000 psi	chs 2 in/min; ASTM D638
Flexural Modulus	2.63 GPa	382 ksi	Procedure B, Test Method I(chs 0.05 in/min); ASTM D790
Izod Impact, Notched	5.34 J/cm	10.0 ft-lb/in	Test Method A (0.125 in bar); ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	0.125 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648
	110 °C	230 °F	0.25 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648
Vicat Softening Point	137 °C	279 °F	0.125 inch, 1 Kg; ASTM D1525
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

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