

Bhansali Engineering Abstron IMC-45M ABS-PC Alloy

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

Material Notes:

ABS-polycarbonate alloys for High service temperature applications. Information provided by Bhansali

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bhansali-Engineering-Abstron-IMC-45M-ABS-PC-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D-792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D-955
Melt Flow	10 g/10 min @Load 10.0 kg, Temperature 220 °C	10 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D-785
Tensile Strength, Yield	53.9 MPa @Thickness 3.20 mm	7820 psi @Thickness 0.126 in	Type 1, 5 mm/min; ASTM D-638
Flexural Yield Strength	83.4 MPa @Thickness 6.40 mm	12100 psi @Thickness 0.252 in	ASTM D-790
Flexural Modulus	2.30 GPa @Thickness 6.40 mm	334 ksi @Thickness 0.252 in	ASTM D-790
Izod Impact, Notched	4.41 J/cm @Thickness 6.40 mm	8.27 ft-lb/in @Thickness 0.252 in	ASTM D-256
	5.88 J/cm @Thickness 3.20 mm	11.0 ft-lb/in @Thickness 0.126 in	ASTM D-256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	Method A - Annealed; ASTM D-648
Vicat Softening Point	120 °C	248 °F	Method B; ASTM D-1525
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	UL-94

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