

Bhansali Engineering Abstron IPM3000 PMMA- ABS Alloy

Category : Polymer , Thermoplastic , ABS Polymer , Acrylic (PMMA)

Material Notes:

Super High Gloss, High scratch resistance Information provided by Bhansali

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bhansali-Engineering-Abstron-IPM3000-PMMA-ABS-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Linear Mold Shrinkage	0.00300 - 0.00500 cm/cm	0.00300 - 0.00500 in/in	ASTM D955
Melt Flow	23.0 g/10 min @Load 10.0 kg, Temperature 220 °C	23.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Yield	49.0 MPa @Thickness 3.20 mm	7110 psi @Thickness 0.126 in	Type I, 5 mm/min; ASTM D638
Flexural Yield Strength	68.6 MPa @Thickness 6.40 mm	9960 psi @Thickness 0.252 in	5 mm/min; ASTM D790
Flexural Modulus	2.45 GPa @Thickness 6.40 mm	356 ksi @Thickness 0.252 in	5 mm/min; ASTM D790
Izod Impact, Notched	1.18 J/cm @Thickness 6.40 mm	2.20 ft-lb/in @Thickness 0.252 in	ASTM D256
	1.47 J/cm @Thickness 3.20 mm	2.76 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	92.0 °C @Thickness 6.40 mm	198 °F @Thickness 0.252 in	Method A; ASTM D648
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Descriptive Properties	Value	Comments
Pencil Hardness	HB	45°, 7.5 N, ASTM D3363

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