

Bhansali Engineering Abstron IM-21 ABS Very High Rigidity Injection Molding Grade

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Very High Rigidity, High Gloss, Medium Impact with excellent other mechanical properties Information provided by Bhansali

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bhansali-Engineering-Abstron-IM-21-ABS-Very-High-Rigidity-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.045 g/cc	0.03775 lb/in ³	ASTM D-792
Linear Mold Shrinkage	0.0040 - 0.0050 cm/cm	0.0040 - 0.0050 in/in	ASTM D-955
Melt Flow	30 g/10 min @Load 10.0 kg, Temperature 220 °C	30 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	47.1 MPa @Thickness 3.20 mm	6830 psi @Thickness 0.126 in	Type 1; ASTM D638
Flexural Yield Strength	71.6 MPa @Thickness 6.40 mm	10400 psi @Thickness 0.252 in	ASTM D790
Flexural Modulus	2.35 GPa @Thickness 6.40 mm	341 ksi @Thickness 0.252 in	ASTM D790
Izod Impact, Notched	1.76 J/cm @Thickness 6.40 mm	3.31 ft-lb/in @Thickness 0.252 in	ASTM D256
	2.2549 J/cm @Thickness 3.20 mm	4.2244 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	Method A - Annealed; ASTM D-648
Vicat Softening Point	105 °C	221 °F	Method B; ASTM D-1525
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	UL-94

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