

Bhansali Engineering Abstron TG-3(M) ABS High Impact Injection Molding

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Very High & Medium Impact, Paintable Automotive Grades Information provided by Bhansali

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bhansali-Engineering-Abstron-TG-3M-ABS-High-Impact-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.045 g/cc	0.03775 lb/in ³	ASTM D-792
Linear Mold Shrinkage	0.0050 - 0.0060 cm/cm	0.0050 - 0.0060 in/in	ASTM D-955
Melt Flow	42 g/10 min @Load 10.0 kg, Temperature 220 °C	42 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D-785
Tensile Strength, Yield	38.2 MPa @Thickness 3.20 mm	5550 psi @Thickness 0.126 in	Type 1, 5 mm/min speed; ASTM D-638
Flexural Yield Strength	55.9 MPa @Thickness 6.40 mm	8110 psi @Thickness 0.252 in	ASTM D-790
Flexural Modulus	1.86 GPa @Thickness 6.40 mm	270 ksi @Thickness 0.252 in	ASTM D-790
Izod Impact, Notched	2.9412 J/cm @Thickness 6.40 mm	5.5101 ft-lb/in @Thickness 0.252 in	ASTM D-256
	3.7255 J/cm @Thickness 3.20 mm	6.9794 ft-lb/in @Thickness 0.126 in	ASTM D-256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	Method A - Annealed; ASTM D-648
Vicat Softening Point	102 °C	216 °F	Method B; ASTM D-1525
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	UL-94

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