

Bhansali Engineering Abstron IM11GMS ABS Injection Molding Grade

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

Material Notes:

High Rigidity, High Impact, High Chemical Resistance Information provided by Bhansali

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bhansali-Engineering-Abstron-IM11GMS-ABS-Injection-Molding-Grade.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|---|------------|
| Specific Gravity | 1.045 g/cc | 1.045 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.00400 - 0.00600 cm/cm | 0.00400 - 0.00600 in/in | ASTM D955 |
| Melt Flow | 12.0 g/10 min @Load 10.0 kg, Temperature 220 °C | 12.0 g/10 min @Load 22.0 lb, Temperature 428 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------|--------------------------------------|-----------------------------|
| Hardness, Rockwell R | 102 | 102 | ASTM D785 |
| Tensile Strength, Yield | 47.1 MPa @Thickness 3.20 mm | 6830 psi @Thickness 0.126 in | Type I, 5 mm/min; ASTM D638 |
| Flexural Yield Strength | 64.7 MPa @Thickness 6.40 mm | 9390 psi @Thickness 0.252 in | 5 mm/min; ASTM D790 |
| Flexural Modulus | 2.35 GPa @Thickness 6.40 mm | 341 ksi @Thickness 0.252 in | 5 mm/min; ASTM D790 |
| Izod Impact, Notched | 2.94 J/cm @Thickness 6.40 mm | 5.51 ft-lb/in @Thickness 0.252 in | ASTM D256 |
| | 3.92 J/cm @Thickness 3.20 mm | 7.35 ft-lb/in @Thickness 0.126 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|-------------------------------|-------------------------------|---------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 98.0 °C @Thickness 6.40 mm | 208 °F @Thickness 0.252 in | Method A; ASTM D648 |
| Flammability, UL94 | HB @Thickness 3.20 mm | HB @Thickness 0.126 in | |

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