

Bhansali Engineering Abstron MIF-45 ABS Injection Molding Grade

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

High Impact, Medium, High Flow, General Purpose Information provided by Bhansali

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bhansali-Engineering-Abstron-MIF-45-ABS-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 - 0.0060 cm/cm | 0.0040 - 0.0060 in/in | ASTM D-955 |
| Melt Flow | 43 g/10 min @Load 10.0 kg, Temperature 220 °C | 43 g/10 min @Load 22.0 lb, Temperature 428 °F | ASTM D-1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------------------------------|--|-------------------|
| Hardness, Rockwell R | 110 | 110 | ASTM D-785 |
| Tensile Strength, Yield | 41.2 MPa @Thickness 3.20 mm | 5970 psi @Thickness 0.126 in | Type 1; ASTM D638 |
| Flexural Yield Strength | 63.7 MPa @Thickness 6.40 mm | 9250 psi @Thickness 0.252 in | ASTM D790 |
| Flexural Modulus | 2.21 GPa @Thickness 6.40 mm | 320 ksi @Thickness 0.252 in | ASTM D790 |
| Izod Impact, Notched | 2.16 J/cm @Thickness 6.40 mm | 4.04 ft-lb/in @Thickness 0.252 in | ASTM D256 |
| | 2.7451 J/cm @Thickness 3.20 mm | 5.1427 ft-lb/in @Thickness 0.126 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|---------------------------|---------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 93.0 °C | 199 °F | Method A - Annealed; ASTM D-648 |
| Vicat Softening Point | 103 °C | 217 °F | Method B; ASTM D-1525 |
| Flammability, UL94 | HB @Thickness 3.20 mm | HB @Thickness 0.126 in | UL-94 |

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