

Techmer ES Plastiblend® ABS E

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Availability: North America Forms: Pellets Features: High Viscosity Processing Method: Blow Molding and Extrusion Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-ABS-E.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|------------|
| Density | 1.03 g/cc | 0.0372 lb/in ³ | ASTM D792 |
| Melt Flow | 0.30 g/10 min @Load 5.00 kg, Temperature 200 °C | 0.30 g/10 min @Load 11.0 lb, Temperature 392 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|-----------|
| Hardness, Rockwell R | 100 | 100 | ASTM D785 |
| Tensile Strength, Yield | 37.2 MPa | 5400 psi | ASTM D638 |
| Elongation at Break | 3.1 % | 3.1 % | ASTM D638 |
| Flexural Strength | 71.0 MPa | 10300 psi | ASTM D790 |
| Flexural Modulus | 2.34 GPa | 340 ksi | ASTM D790 |
| Izod Impact, Notched | 1.12 J/cm @Thickness 3.17 mm, Temperature -40.0 °C | 2.10 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F | ASTM D256 |
| | 1.49 J/cm @Thickness 3.17 mm, Temperature 0.000 °C | 2.80 ft-lb/in @Thickness 0.125 in, Temperature 32.0 °F | ASTM D256 |
| | 3.04 J/cm @Thickness 3.17 mm, Temperature 22.8 °C | 5.70 ft-lb/in @Thickness 0.125 in, Temperature 73.0 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 93.9 °C | 201 °F | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 81.1 °C | 178 °F | Unannealed; ASTM D648 |

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