

Polyram RamShine PV3003R2 Acrylonitrile Butadiene Styrene, 10% Carbon Fiber

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 10% Carbon Fiber Filled

Material Notes:

10% Carbon fiber reinforced ABS for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-RamShine-PV3003R2-Acrylonitrile-Butadiene-Styrene-10-Carbon-Fiber.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------------------------------------|-----------------------------------------------------|----------|
| Density | 1.10 g/cc | 0.0397 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage | 0.0010 - 0.0030 cm/cm | 0.0010 - 0.0030 in/in | ISO 2577 |
| Melt Flow | 22 g/10 min @Load 10.0 kg, Temperature 220 °C | 22 g/10 min @Load 22.0 lb, Temperature 428 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|----------|
| Tensile Strength, Yield | 80.0 MPa | 11600 psi | ISO 527 |
| Elongation at Break | 2.5 % | 2.5 % | ISO 527 |
| Tensile Modulus | 5.00 GPa | 725 ksi | ISO 527 |
| Flexural Strength | 110 MPa | 16000 psi | ISO 178 |
| Flexural Modulus | 6.00 GPa | 870 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 5.00 kJ/m ² | 2.38 ft-lb/in ² | ISO 180 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------------------------|---------------------------|----------|
| Flammability, UL94 | HB @Thickness 3.00 mm | HB @Thickness 0.118 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|-----------|
| Volume Resistivity | 1000 ohm-cm | 1000 ohm-cm | IEC 60093 |

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