

Ovation Polymers RIGITRON 30545 GF Polyester, 45% Glass Reinforced

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Polyester – 45% Glass Fiber Reinforced PET. *All properties are measured after 48 hours of conditioning at 23°C and 50% relative humidity. All samples are prepared according to ASTM standards. Variations within normal tolerances are possible for various types of colors and functional properties like UV resistance. Information provided by Ovation Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ovation-Polymers-RIGITRON-30545-GF-Polyester-45-Glass-Reinforced.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---|--|-----------|
| Specific Gravity | 1.68 g/cc | 1.68 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.00 - 0.0020 cm/cm @Thickness 3.17 mm | 0.00 - 0.0020 in/in @Thickness 0.125 in | |
| Linear Mold Shrinkage, Transverse | 0.00 - 0.0020 cm/cm @Thickness 3.17 mm | 0.00 - 0.0020 in/in @Thickness 0.125 in | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------|---------------|-----------------------|
| Tensile Strength at Break | 168 MPa | 24400 psi | 50 mm/min; ASTM D638 |
| Elongation at Break | 2.5 % | 2.5 % | 50 mm/min; ASTM D638 |
| Tensile Modulus | 10.8 GPa | 1570 ksi | 50 mm/min; ASTM D638 |
| Flexural Yield Strength | 240 MPa | 34800 psi | 1.3 mm/min; ASTM D790 |
| Flexural Modulus | 13.5 GPa | 1960 ksi | 1.3 mm/min; ASTM D790 |
| Izod Impact, Notched | 0.801 J/cm | 1.50 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|-------------------------------|------------------------------|
| Melting Point | 250 - 258 °C | 482 - 496 °F | DSC @ 15°C / min; ASTM D3418 |
| Deflection Temperature at 1.8 MPa (264 psi) | 220 °C @Thickness 3.20 mm | 428 °F @Thickness 0.126 in | unannealed; ASTM D648 |

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