

Toyobo VYLOPET® EMC532 Injection Molding Polyester Resin, Glass Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Applications: Auto-parts Features: Ultrasonic weldability Glass fiber reinforcement Information provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-VYLOPET-EMC532-Injection-Molding-Polyester-Resin-Glass-Reinforced.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------|---------------------------|-----------|
| Density | 1.56 g/cc | 0.0564 lb/in ³ | ASTM D792 |
| Water Absorption | 0.060 % | 0.060 % | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0030 cm/cm | 0.0030 in/in | MD |
| Linear Mold Shrinkage, Transverse | 0.0090 cm/cm | 0.0090 in/in | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|---------------|-----------|
| Hardness, Rockwell M | 95 | 95 | ASTM D785 |
| Tensile Strength at Break | 140 MPa | 20300 psi | ASTM D638 |
| Elongation at Break | 2.8 % | 2.8 % | ASTM D638 |
| Flexural Strength | 200 MPa | 29000 psi | ASTM D790 |
| Flexural Modulus | 8.50 GPa | 1230 ksi | ASTM D790 |
| Izod Impact, Notched | 1.30 J/cm | 2.44 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|----------------------|----------------------|----------------------------|
| CTE, linear | 20.0 μm/m-°C | 11.1 μin/in-°F | ASTM D696 |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |
| Melting Point | 255 °C | 491 °F | By DSC |
| Maximum Service Temperature, Air | 130 °C | 266 °F | Thermal index; ASTM UL746B |
| | 225 °C | 437 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 240 °C | 464 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 213 °C | 415 °F | ASTM D648 |
| Flammability, UL94 | | | |

| Thermal Properties | Metric | English | Comments |
|----------------------------|----------------------------------|-----------------------------------|-----------------------------------|
| Electrical Properties | Metric | English | Comments |
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |
| Dielectric Strength | 22.0 kV/mm @Thickness 2.00 mm | 559 kV/in @Thickness 0.0787 in | ASTM D149 |
| Arc Resistance | 121 sec | 121 sec | Tungsten electrode; ASTM D495 |
| Comparative Tracking Index | 175 - 249 V | 175 - 249 V | IEC Pub1.112, class 3; IEC Method |
| Processing Properties | Metric | English | Comments |
| Melt Temperature | 255 - 270 °C | 491 - 518 °F | |
| Mold Temperature | 85.0 - 120 °C | 185 - 248 °F | |

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