

Toyobo VYLOPET® EMC545 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-EMC545-Injection-Molding-Polyester-Resin-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	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	153 MPa	22200 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	215 MPa	31200 psi	ASTM D790
Flexural Modulus	12.5 GPa	1810 ksi	ASTM D790
Izod Impact, Notched	1.22 J/cm	2.29 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)	245 °C	473 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °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	25.0 kV/mm @Thickness 2.00 mm	635 kV/in @Thickness 0.0787 in	ASTM D149
Arc Resistance	135 sec	135 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	90.0 - 110 °C	194 - 230 °F	

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