

Toyobo Vylopet® EMC317R Glass Reinforced Polyester, Standard Grade

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

Material Notes:

Key Feature: UL-94 class
Applications: Glossy surface components
 General features of Vylopet® include heat resistance, good mechanical properties, high dielectric strength and tracking resistance, chemical & weather resistance, and processability.
 Information provided by Toyobo Co., Ltd

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-Vylopet-EMC317R-Glass-Reinforced-Polyester-Standard-Grade.php

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength, Ultimate	74.0 MPa	10700 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ASTM D638
Flexural Yield Strength	118 MPa	17100 psi	ASTM D790
Flexural Modulus	8.70 GPa	1260 ksi	ASTM D790
Compressive Yield Strength	88.0 MPa	12800 psi	ASTM D695
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	40	40	ASTM D1044

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	240 °C	464 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ASTM D648
UL RTI, Electrical	120 °C	248 °F	UL-746B
	HB	HB	

Thermal Properties	Metric	English	Comments
	@ Thickness 1.59 mm	@ Thickness 0.0625 in	
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	125 sec	125 sec	ASTM D495
Comparative Tracking Index	265 V	265 V	IEC test

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