

Toyobo Vylopet® EMC145 Glass Reinforced Polyester, Standard Grade

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass Fiber Filled, Flame Retardant

Material Notes:

Key Feature: Flame retardant V-0 UL-94 class
Applications: Ultra-precise 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-EMC145-Glass-Reinforced-Polyester-Standard-Grade.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	
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, Ultimate	172 MPa	24900 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ASTM D638
Flexural Yield Strength	255 MPa	37000 psi	ASTM D790
Flexural Modulus	16.0 GPa	2320 ksi	ASTM D790
Compressive Yield Strength	128 MPa	18600 psi	ASTM D695
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	34	34	ASTM D1044

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	ASTM D648
UL RTI, Electrical	130 °C	266 °F	UL-746B
	V-0		

Thermal Properties	Metric	English	Comments
	@Thickness 0.7937 mm	@Thickness 0.03125 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 @Thickness 2.00 mm	635 kV/in @Thickness 0.0787 in	ASTM D149
Arc Resistance	80 sec	80 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	IEC test

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