

Toyobo Vylopet® EMC310K Glass Reinforced Polyester, Easy Molding Grade

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

Material Notes:

Key Feature: HB UL-94 class
Applications: General 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-EMC310K-Glass-Reinforced-Polyester-Easy-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	91	91	ASTM D785
Tensile Strength, Ultimate	101 MPa	14600 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	ASTM D638
Flexural Yield Strength	147 MPa	21300 psi	ASTM D790
Flexural Modulus	7.30 GPa	1060 ksi	ASTM D790
Compressive Yield Strength	96.0 MPa	13900 psi	ASTM D695
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	33	33	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)	210 °C	410 °F	ASTM D648
UL RTI, Electrical	120 °C	248 °F	UL-746B
	HB	HB	

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	135 sec	135 sec	ASTM D495
Comparative Tracking Index	280 V	280 V	IEC test

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