

Toyobo Vylopet® EMC120S 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: Electric and electronic 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-EMC120S-Glass-Reinforced-Polyester-Standard-Grade.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 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	123 MPa	17800 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ASTM D638
Flexural Yield Strength	196 MPa	28400 psi	ASTM D790
Flexural Modulus	9.30 GPa	1350 ksi	ASTM D790
Compressive Yield Strength	108 MPa	15700 psi	ASTM D695
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	36	36	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)	220 °C	428 °F	ASTM D648
UL RTI, Electrical	130 °C	266 °F	UL-746B
	V-0	V-0	

Flammability UL 94 Thermal Properties	Metric @ Thickness 0.907 mm	English @ Thickness 0.0357 in	UL-94 Comments
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Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	23.0 kV/mm @Thickness 2.00 mm	584 kV/in @Thickness 0.0787 in	ASTM D149
Arc Resistance	85 sec	85 sec	ASTM D495
Comparative Tracking Index	220 V	220 V	IEC test

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