

## Toyobo Vylopet® EMC245K Glass Reinforced Polyester, Easy Molding Grade

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

### Material Notes:

**Key Feature:** HB 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-EMC245K-Glass-Reinforced-Polyester-Easy-Molding-Grade.php](http://www.lookpolymers.com/polymer_Toyobo-Vylopet-EMC245K-Glass-Reinforced-Polyester-Easy-Molding-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in <sup>3</sup>	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	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	ASTM D785
Tensile Strength, Ultimate	152 MPa	22000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	226 MPa	32800 psi	ASTM D790
Flexural Modulus	15.2 GPa	2200 ksi	ASTM D790
Compressive Yield Strength	123 MPa	17800 psi	ASTM D695
Izod Impact, Notched	2.20 J/cm	4.12 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	25	25	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)	230 °C	446 °F	ASTM D648
UL RTI, Electrical	130 °C	266 °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	130 sec	130 sec	ASTM D495
Comparative Tracking Index	250 V	250 V	IEC test

## Contact Songhan Plastic Technology Co.,Ltd.

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