

Toyobo Vylopet® EMC615 PET/PBT Blend

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

Material Notes:

Key Feature: Flame retardant V-0 UL 94 class
Applications: electrical and electronic components
 PET/PBT blends suggested for glossy surfaces. 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-EMC615-PETPBT-Blend.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in³	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	ASTM D785
Tensile Strength, Ultimate	108 MPa	15700 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Yield Strength	147 MPa	21300 psi	ASTM D790
Flexural Modulus	6.90 GPa	1000 ksi	ASTM D790
Compressive Yield Strength	93.0 MPa	13500 psi	ASTM D695
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	30	30	ASTM D1044

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ASTM D648
Flammability, UL94	V-0	V-0	

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	80 sec	80 sec	ASTM D495
Comparative Tracking Index	220 V	220 V	IEC test

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