

Toyobo Vylopet® EMC405A PET/PBT Blend

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

Material Notes:

Key Feature: HB UL-94 Class
Applications: glossy surface 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-EMC405A-PETPBT-Blend.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength, Ultimate	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	3.7 %	3.7 %	ASTM D638
Flexural Yield Strength	88.0 MPa	12800 psi	ASTM D790
Flexural Modulus	4.70 GPa	682 ksi	ASTM D790
Compressive Yield Strength	59.0 MPa	8560 psi	ASTM D695
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	15	15	ASTM D1044

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	24.0 kV/mm @Thickness 2.00 mm	610 kV/in @Thickness 0.0787 in	ASTM D149
Arc Resistance	130 sec	130 sec	ASTM D495
Comparative Tracking Index	255 V	255 V	IEC test

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