

## Toyobo Vylopet® EMC605 PET/PBT Blend

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

### Material Notes:

**Key Feature:** Flame retardant V-0 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-EMC605-PETPBT-Blend.php](http://www.lookpolymers.com/polymer_Toyobo-Vylopet-EMC605-PETPBT-Blend.php)

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength, Ultimate	47.0 MPa	6820 psi	ASTM D638
Elongation at Break	3.2 %	3.2 %	ASTM D638
Flexural Yield Strength	81.0 MPa	11700 psi	ASTM D790
Flexural Modulus	3.40 GPa	493 ksi	ASTM D790
Compressive Yield Strength	54.0 MPa	7830 psi	ASTM D695
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	18	18	ASTM D1044

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	115 °C	239 °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	24.0 kV/mm @Thickness 2.00 mm	610 kV/in @Thickness 0.0787 in	ASTM D149
Arc Resistance	80 sec	80 sec	ASTM D495
Comparative Tracking Index	210 V	210 V	IEC test

## Contact Songhan Plastic Technology Co.,Ltd.

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