

## Toyobo VYLOPET® EMC605P PBT/PET Alloy, Anti-microbial

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

### Material Notes:

Applications: Gas equipment parts  
Features: Good anti-microbial  
Good appearance  
Flame resistant  
Information provided by Toyobo.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Toyobo-VYLOPET-EMC605P-PBTPET-Alloy-Anti-microbial.php](http://www.lookpolymers.com/polymer_Toyobo-VYLOPET-EMC605P-PBTPET-Alloy-Anti-microbial.php)

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.060 %	0.060 %	24 hrs at 23°C; ASTM D570
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	MD
	@Thickness 3.00 mm	@Thickness 0.118 in	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D785
Tensile Strength at Break	48.0 MPa	6960 psi	ASTM D638
Elongation at Break	3.2 %	3.2 %	ASTM D638
Flexural Strength	80.0 MPa	11600 psi	ASTM D790
Flexural Modulus	3.50 GPa	508 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 μm/m-°C	38.9 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	205 °C	401 °F	Ball pressure temperature; ASTM UL746B
Deflection Temperature at 0.46 MPa (66 psi)	185 °C	365 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume 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	90 sec	90 sec	Tungsten electrode; ASTM D495
Comparative Tracking Index	175 - 249 V	175 - 249 V	IEC Pub1.112, class 3; IEC Method

Processing Properties	Metric	English	Comments
Processing Temperature	265 °C	509 °F	Molding temperature
Mold Temperature	80.0 °C	176 °F	
Drying Temperature	140 °C	284 °F	
Dry Time	3 hour	3 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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