

Toyobo VYLOPET® EMC618P 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
Warpageless
Flame resistant
Information provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-VYLOPET-EMC618P-PBTPET-Alloy-Anti-microbial.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	24 hrs at 23°C; ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	MD
	@Thickness 3.00 mm	@Thickness 0.118 in	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength at Break	142 MPa	20600 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Flexural Strength	170 MPa	24700 psi	ASTM D790
Flexural Modulus	8.50 GPa	1230 ksi	ASTM D790
Izod Impact, Notched	0.650 J/cm	1.22 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 µm/m-°C	19.4 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)	225 °C	437 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °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	

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