

Toyobo VYLOPET® EMC407 Non-Reinforced

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

Material Notes:

Applications: Iron's heat insulation plateChair framesHousingsFeatures: WarpagelessImproved processabilityHigh fluidityGood appearanceInformation provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-VYLOPET-EMC407-Non-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 3.00 mm	0.0020 in/in @Thickness 0.118 in	MD
Linear Mold Shrinkage, Transverse	0.0020 cm/cm @Thickness 3.00 mm	0.0020 in/in @Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D785
Tensile Strength at Break	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	>= 100 %	>= 100 %	ASTM D638
Flexural Strength	98.0 MPa	14200 psi	ASTM D790
Flexural Modulus	3.00 GPa	435 ksi	ASTM D790
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C @Temperature 20.0 °C	44.4 µin/in-°F @Temperature 68.0 °F	ASTM D696
Maximum Service Temperature, Air	205 °C	401 °F	Ball pressure temperature; ASTM UL746B
Deflection Temperature at 0.46 MPa (66 psi)	165 °C	329 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	
Flammability, UL94	HB	HB	

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	610 kV/in	ASTM D149
Arc Resistance	130 sec	130 sec	Tungsten electrode; ASTM D495
Comparative Tracking Index	250 - 399 V	250 - 399 V	IEC Pub1.112, class 2; IEC Method

Processing Properties	Metric	English	Comments
Processing Temperature	265 °C	509 °F	Molding temperature
Mold Temperature	50.0 °C	122 °F	
Drying Temperature	140 °C	284 °F	
Dry Time	3 hour	3 hour	

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