

Toyobo VYLOPET® EMC130-20 Injection Molding Polyester Resin, Flame Resistant

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

Material Notes:

Applications: Relay parts
Features: Excellent arc resistance
Flame resistance
Information provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-VYLOPET-EMC130-20-Injection-Molding-Polyester-Resin-Flame-Resistant.php

Physical Properties	Metric	English	Comments
Density	1.91 g/cc	0.0690 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	MD
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength at Break	110 MPa	16000 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Strength	150 MPa	21800 psi	ASTM D790
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790
Izod Impact, Notched	0.630 J/cm	1.18 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	38	38	CS-17; ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	13.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Melting Point	255 $^{\circ}\text{C}$	491 $^{\circ}\text{F}$	By DSC
Maximum Service Temperature, Air	130 $^{\circ}\text{C}$	266 $^{\circ}\text{F}$	Thermal index; ASTM UL746B
	225 $^{\circ}\text{C}$	437 $^{\circ}\text{F}$	Ball pressure temperature; IEC Method
Deflection Temperature at 0.46 MPa (66 psi)	240 $^{\circ}\text{C}$	464 $^{\circ}\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa	225 $^{\circ}\text{C}$	437 $^{\circ}\text{F}$	

(264 psi) Thermal Properties	Metric	English	ASTM D648 Comments
Flammability, UL94	V-0 @Thickness 0.7937 mm	V-0 @Thickness 0.03125 in	

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	181 sec	181 sec	UL recognition value, 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
Melt Temperature	250 - 260 °C	482 - 500 °F	
Mold Temperature	90.0 - 120 °C	194 - 248 °F	

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