

Toyobo VYLOPET® EMC310TU Injection Molding Polyester Resin, Warpageless, High cycles

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

Material Notes:

Applications: Coiled bobbinsMouthpiecesFeatures: High cyclesWarpagelessInformation provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-VYLOPET-EMC310TU-Injection-Molding-Polyester-Resin-Warpageless-High-cycles.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 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	100 MPa	14500 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ASTM D638
Flexural Strength	155 MPa	22500 psi	ASTM D790
Flexural Modulus	8.80 GPa	1280 ksi	ASTM D790
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	35	35	CS-17; ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 µm/m-°C	22.2 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	255 °C	491 °F	By DSC
Maximum Service Temperature, Air	120 °C	248 °F	Thermal index; ASTM UL746B
	225 °C	437 °F	Ball pressure temperature; IEC Method
Deflection Temperature at 0.46 MPa (66 psi)	240 °C	464 °F	ASTM D648
Deflection Temperature at 1.8 MPa	215 °C	419 °F	

(264 psi) Thermal Properties	Metric	English	ASTM D648 Comments
Flammability, UL94	V-0	V-0	
	@Thickness 0.907 mm	@Thickness 0.0357 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
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
Melt Temperature	255 - 265 °C	491 - 509 °F	
Mold Temperature	90.0 - 120 °C	194 - 248 °F	

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