

Toyobo VYLOPET® EMC307 Injection Molding Polyester Resin, High Cycles

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

Material Notes:

Applications: Coiled bobbinsMouthpiecesFeatures: High cyclesInformation provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-VYLOPET-EMC307-Injection-Molding-Polyester-Resin-High-Cycles.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in³	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	MD
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/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	95.0 MPa	13800 psi	ASTM D790
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790
Izod Impact, Notched	1.08 J/cm	2.02 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	20	20	CS-17; ASTM D1044

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	
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)	103 °C	217 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ASTM D648

Thermal Properties	^{V-0} Metric	^{V-0} English	Comments
	@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 @Thickness 2.00 mm	635 kV/in @Thickness 0.0787 in	ASTM D149
Arc Resistance	125 sec	125 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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China