

Toyobo VYLOPET® EMC320R Polyester Resin

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

Material Notes:

VYLOPET® is a polyester resin developed specifically for injection molding. Polyester resins have excellent heat resistance, rigidity, chemical resistance, and electric properties. Grade EMC320R has a fine appearance and is used for lamp parts and home electric appliance parts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-VYLOPET-EMC320R-Polyester-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	ASTM-D792
Water Absorption	0.060 %	0.060 %	ASTM-D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	MD
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM-D785
Tensile Strength, Ultimate	110 MPa	16000 psi	ASTM-D638
Elongation at Break	2.0 %	2.0 %	ASTM-D638
Flexural Strength	180 MPa	26100 psi	ASTM-D790
Flexural Modulus	8.00 GPa	1160 ksi	ASTM-D790
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM-D256
Taber Abrasion, mg/1000 Cycles	28	28	CS-17; ASTM-D1044

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	16.7 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM-D696
Melting Point	255 °C	491 °F	DSC
Maximum Service Temperature, Air	130 °C	266 °F	Thermal Index; 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 (264 psi)	215 °C	419 °F	ASTM-D648

Thermal Properties	Metric	English	Comments
Flammability, UL 94			

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 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	130 sec	130 sec	Tungsten electrode; ASTM-D495

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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