

Toyobo VYLOPET® EMC133 Injection Molding Polyester Resin, Hydrolysis Resistant

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

Material Notes:

Applications: Electric rice cooker parts Bathroom appliances Features: Good hydrolysis resistance Information provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-VYLOPET-EMC133-Injection-Molding-Polyester-Resin-Hydrolysis-Resistant.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
Linear Mold Shrinkage, Flow	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	95	95	ASTM D785
Tensile Strength at Break	141 MPa	20500 psi	ASTM D638
Elongation at Break	2.1 %	2.1 %	ASTM D638
Flexural Strength	240 MPa	34800 psi	ASTM D790
Flexural Modulus	13.3 GPa	1930 ksi	ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 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
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	255 °C	491 °F	By DSC
Maximum Service Temperature, Air	130 °C	266 °F	Thermal index; ASTM UL746B
	225 °C	437 °F	Ball pressure temperature; IEC Method
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	ASTM D648
Deflection Temperature at 1.8 MPa	240 °C	464 °F	

(264 psi) Thermal Properties	Metric	English	ASTM D648 Comments
Flammability, UL94	V-0 @Thickness 0.907 mm	V-0 @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	80 sec	80 sec	Tungsten electrode; ASTM D495
Comparative Tracking Index	175 - 249 V	175 - 249 V	IEC Pub1.112, class 3; 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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