

Plenco 1586 Polyester, Pellet, Injection Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass and Mineral Filled BMC

Material Notes:

PLENCO 01586 is a glass and mineral reinforced pelletized polyester molding compound offering excellent heat resistance and mechanical strength properties. This product is typically used for injection molded electrical appliance components. UL recognized under component file E40654. 01586 is available in white. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-1586-Polyester-Pellet-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.890 g/cc	0.0322 lb/in ³	ASTM D1895
Density	1.89 g/cc	0.0683 lb/in ³	ASTM D792
Water Absorption	0.059 %	0.059 %	ASTM D570
Linear Mold Shrinkage	0.0037 cm/cm	0.0037 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	54	54	ASTM D785
Tensile Strength, Ultimate	64.0 MPa	9280 psi	ASTM D638
Elongation at Break	1.09 %	1.09 %	ASTM D638
Tensile Modulus	11.7 GPa	1700 ksi	ASTM D638
Flexural Strength	101 MPa	14600 psi	ASTM D790
Flexural Modulus	10.2 GPa	1480 ksi	ASTM D790
Compressive Strength	119 MPa	17300 psi	ASTM D695
Poissons Ratio	0.32	0.32	ASTM D638
Shear Modulus	4.43 GPa	643 ksi	Calculated
Izod Impact, Notched	0.410 J/cm	0.768 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ASTM D256
Impact	289	289	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	86.0 μm/m-°C	47.8 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	0.870 W/m-K @Temperature 100 °C	6.04 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	217 °C	423 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	252 °C	486 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.00 mm	V-0 @Thickness 0.0394 in	
Oxygen Index	41 %	41 %	ASTM D2863
Shrinkage	0.0072 %	0.0072 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.80e+15 ohm-cm	1.80e+15 ohm-cm	ASTM D247
Dielectric Constant	4.4	4.4	ASTM D150
Dielectric Strength	11.1 kV/mm	282 kV/in	Step by Step; ASTM D149
	13.0 kV/mm	330 kV/in	Short Time; ASTM D149
Dielectric Breakdown	23000 V	23000 V	1hr 120C; ASTM D149
Dissipation Factor	0.0173	0.0173	ASTM D150
Arc Resistance	189 sec	189 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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