

Plenco 1586 Polyester, Pellet, Transfer 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-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.950 g/cc	0.0343 lb/in ³	ASTM D1895
Density	1.92 g/cc	0.0694 lb/in ³	ASTM D792
Water Absorption	0.068 %	0.068 %	ASTM D570
Linear Mold Shrinkage	0.00192 cm/cm	0.00192 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	51	51	ASTM D785
Tensile Strength, Ultimate	76.0 MPa	11000 psi	ASTM D638
Elongation at Break	1.32 %	1.32 %	ASTM D638
Tensile Modulus	10.8 GPa	1570 ksi	ASTM D638
Flexural Strength	119 MPa	17300 psi	ASTM D790
Flexural Modulus	10.2 GPa	1480 ksi	ASTM D790
Compressive Strength	157 MPa	22800 psi	ASTM D695
Izod Impact, Notched	0.770 J/cm	1.44 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.720 J/cm ²	3.43 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	211 °C	412 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	267 °C	513 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.00 mm	V-0 @Thickness 0.0394 in	

Oxygen Index Thermal Properties	36 % Metric	36 % English	ASTM D2863 Comments
Shrinkage	0.0114 %	0.0114 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+15 ohm-cm	1.20e+15 ohm-cm	ASTM D247
Dielectric Constant	4.2	4.2	ASTM D150
Dielectric Strength	11.3 kV/mm	287 kV/in	Step by Step; ASTM D149
	12.4 kV/mm	315 kV/in	Short Time; ASTM D149
Dielectric Breakdown	23000 V @Temperature 121 °C, Time 3600 sec	23000 V @Temperature 250 °F, Time 1.00 hour	ASTM D149
Dissipation Factor	0.0129	0.0129	ASTM D150
Arc Resistance	187 sec	187 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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