

Plenco 1581 Polyester, Pellet, Injection Molded

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

Material Notes:

PLENCO 01581 is a glass and mineral reinforced pelletized polyester molding compound, exhibiting excellent dimensional stability, mechanical strength and also arc resistance, track resistance, and flammability ratings. UL recognized under component file E40654. 01581 is available in a wide range of colors. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-1581-Polyester-Pellet-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.830 g/cc	0.0300 lb/in ³	ASTM D1895
Density	1.83 g/cc	0.0661 lb/in ³	ASTM D792
Water Absorption	0.091 %	0.091 %	ASTM D570
Linear Mold Shrinkage	0.0037 cm/cm	0.0037 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	62	62	ASTM D785
Tensile Strength, Ultimate	65.0 MPa	9430 psi	ASTM D638
Elongation at Break	1.07 %	1.07 %	ASTM D638
Tensile Modulus	11.7 GPa	1700 ksi	ASTM D638
Flexural Strength	106 MPa	15400 psi	ASTM D790
Flexural Modulus	10.7 GPa	1550 ksi	ASTM D790
Compressive Strength	131 MPa	19000 psi	ASTM D695
Poissons Ratio	0.32	0.32	ASTM D638
Shear Modulus	4.43 GPa	643 ksi	Calculated
Izod Impact, Notched	0.380 J/cm	0.712 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.310 J/cm ²	1.48 ft-lb/in ²	ASTM D256
Impact	255	255	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	67.0 μm/m-°C	37.2 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	0.910 W/m-K @Temperature 100 °C	6.32 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	212 °C	414 °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	47 %	47 %	ASTM D2863
Shrinkage	0.0094 %	0.0094 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.70e+15 ohm-cm	1.70e+15 ohm-cm	ASTM D247
Dielectric Constant	4.3	4.3	ASTM D150
Dielectric Strength	11.3 kV/mm	287 kV/in	Step by Step; ASTM D149
	14.4 kV/mm	366 kV/in	Short Time; ASTM D149
Dielectric Breakdown	22900 V	22900 V	1hr 120C; ASTM D149
Dissipation Factor	0.0201	0.0201	ASTM D150
Arc Resistance	189 sec	189 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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