

Plenco 1500 Polyester, Granular, Transfer Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester, Mineral Filled

Material Notes:

PLENCO 01500 is a general purpose, mineral filled granular polyester molding compound, offering excellent arc and track resistance, and low post shrinkage characteristics. UL recognized under component file E40654. 01500 is available in black or tan color. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-1500-Polyester-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.840 g/cc	0.0303 lb/in ³	ASTM D1895
Density	1.87 g/cc	0.0676 lb/in ³	ASTM D792
Water Absorption	0.35 %	0.35 %	ASTM D570
Linear Mold Shrinkage	0.0079 cm/cm	0.0079 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	66	66	ASTM D785
Tensile Strength, Ultimate	42.0 MPa	6090 psi	ASTM D638
Elongation at Break	0.63 %	0.63 %	ASTM D638
Tensile Modulus	10.7 GPa	1550 ksi	ASTM D638
Flexural Strength	75.0 MPa	10900 psi	ASTM D790
Flexural Modulus	10.5 GPa	1520 ksi	ASTM D790
Compressive Strength	148 MPa	21500 psi	ASTM D695
Poissons Ratio	0.31	0.31	ASTM D638
Shear Modulus	4.08 GPa	592 ksi	Calculated
Izod Impact, Notched	0.174 J/cm	0.326 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.181 J/cm ²	0.861 ft-lb/in ²	ASTM D256
Impact	66	66	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 μm/m-°C	38.9 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	177 °C	351 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	174 °C	345 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 3.00 mm	V-1 @Thickness 0.118 in	
Oxygen Index	35 %	35 %	ASTM D2863
Shrinkage	0.045 %	0.045 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.60e+14 ohm-cm	5.60e+14 ohm-cm	ASTM D247
Dielectric Constant	5.1	5.1	ASTM D150
Dielectric Strength	10.3 kV/mm	262 kV/in	Step by Step; ASTM D149
	13.1 kV/mm	333 kV/in	Short Time; ASTM D149
Dielectric Breakdown	20000 V	20000 V	1hr 94C; ASTM D149
Dissipation Factor	0.0253	0.0253	ASTM D150
Arc Resistance	224 sec	224 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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