

Plenco 1500 Polyester, Granular, Compression 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-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.830 g/cc	0.0300 lb/in ³	ASTM D1895
Density	1.86 g/cc	0.0672 lb/in ³	ASTM D792
Water Absorption	0.33 %	0.33 %	ASTM D570
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	64	64	ASTM D785
Tensile Strength, Ultimate	34.0 MPa	4930 psi	ASTM D638
Elongation at Break	0.41 %	0.41 %	ASTM D638
Tensile Modulus	12.4 GPa	1800 ksi	ASTM D638
Flexural Strength	66.0 MPa	9570 psi	ASTM D790
Flexural Modulus	10.5 GPa	1520 ksi	ASTM D790
Compressive Strength	147 MPa	21300 psi	ASTM D695
Izod Impact, Notched	0.165 J/cm	0.309 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.180 J/cm ²	0.857 ft-lb/in ²	ASTM D256
Impact	61	61	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 μm/m-°C	36.1 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Thermal Conductivity	0.760 W/m-K	5.27 BTU-in/hr-ft ² -°F	ASTM E1461

Thermal Properties	@Temperature 100 °C Metric	@Temperature 212 °F English	Comments
Maximum Service Temperature, Air	188 °C	370 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	178 °C	352 °F	ASTM D648
Flammability, UL94	V-1	V-1	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Oxygen Index	34 %	34 %	ASTM D2863
Shrinkage	0.056 %	0.056 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.40e+14 ohm-cm	4.40e+14 ohm-cm	ASTM D247
Dielectric Constant	5.1	5.1	ASTM D150
Dielectric Strength	10.7 kV/mm	272 kV/in	Step by Step; ASTM D149
	13.5 kV/mm	343 kV/in	Short Time; ASTM D149
Dielectric Breakdown	20200 V	20200 V	1hr 120C; ASTM D149
Dissipation Factor	0.0259	0.0259	ASTM D150
Arc Resistance	190 sec	190 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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