

Plenco 1501 Polyester, Pellet, Injection Molded

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

Material Notes:

PLENCO 01501 is a general purpose, mineral filled granular polyester molding compound, offering excellent arc and track resistance properties, low post shrinkage, and improved mechanical strength values. UL recognized under component file E40654. 01501 is available in gray, blue, or tan color. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-1501-Polyester-Pellet-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.820 g/cc	0.0296 lb/in ³	ASTM D1895
Density	1.87 g/cc	0.0676 lb/in ³	ASTM D792
Water Absorption	0.238 %	0.238 %	ASTM D570
Linear Mold Shrinkage	0.0091 cm/cm	0.0091 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	65	65	ASTM D785
Tensile Strength, Ultimate	47.0 MPa	6820 psi	ASTM D638
Elongation at Break	0.61 %	0.61 %	ASTM D638
Tensile Modulus	10.3 GPa	1490 ksi	ASTM D638
Flexural Strength	83.0 MPa	12000 psi	ASTM D790
Flexural Modulus	9.70 GPa	1410 ksi	ASTM D790
Compressive Strength	150 MPa	21800 psi	ASTM D695
Poissons Ratio	0.33	0.33	ASTM D638
Shear Modulus	3.87 GPa	561 ksi	Calculated
Izod Impact, Notched	0.198 J/cm	0.371 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.218 J/cm ²	1.04 ft-lb/in ²	ASTM D256
Impact	133	133	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	46.0 µm/m-°C	25.6 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	170 °C	338 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	182 °C	360 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	24 %	24 %	ASTM D2863
Shrinkage	0.038 %	0.038 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.60e+15 ohm-cm	6.60e+15 ohm-cm	ASTM D247
Dielectric Constant	4.9	4.9	ASTM D150
Dielectric Strength	10.5 kV/mm	267 kV/in	Step by Step; ASTM D149
	12.4 kV/mm	315 kV/in	Short Time; ASTM D149
Dielectric Breakdown	15400 V	15400 V	1hr 120C; ASTM D149
Dissipation Factor	0.0266	0.0266	ASTM D150
Arc Resistance	187 sec	187 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China