

Plenco 1510 Polyester, Pellet, Injection Molded

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

Material Notes:

PLENCO 01510 is a mineral filled, pelletized polyester molding compound, which offers an excellent combination of electrical properties and dimensional stability. UL recognized under component file E40654. 01510 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-1510-Polyester-Pellet-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.960 g/cc	0.0347 lb/in ³	ASTM D1895
Density	2.02 g/cc	0.0730 lb/in ³	ASTM D792
Water Absorption	0.126 %	0.126 %	ASTM D570
Linear Mold Shrinkage	0.0038 cm/cm	0.0038 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	72	72	ASTM D785
Tensile Strength, Ultimate	74.0 MPa	10700 psi	ASTM D638
Elongation at Break	0.51 %	0.51 %	ASTM D638
Tensile Modulus	21.3 GPa	3090 ksi	ASTM D638
Flexural Strength	114 MPa	16500 psi	ASTM D790
Flexural Modulus	19.1 GPa	2770 ksi	ASTM D790
Compressive Strength	155 MPa	22500 psi	ASTM D695
Izod Impact, Notched	0.220 J/cm	0.412 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.227 J/cm ²	1.08 ft-lb/in ²	ASTM D256
Impact	126	126	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	48.0 $\mu\text{m}/\text{m}\cdot\text{C}$	26.7 $\mu\text{in}/\text{in}\cdot\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Maximum Service Temperature, Air	215 °C	419 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	249 °C	480 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	24.5 %	24.5 %	ASTM D2863
Shrinkage	0.00182 %	0.00182 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.70e+15 ohm-cm	3.70e+15 ohm-cm	ASTM D247
Dielectric Constant	4.6	4.6	ASTM D150
Dielectric Strength	11.5 kV/mm	292 kV/in	Step by Step; ASTM D149
	15.3 kV/mm	389 kV/in	Short Time; ASTM D149
Dielectric Breakdown	23000 V	23000 V	1hr 120C; ASTM D149
Dissipation Factor	0.0153	0.0153	ASTM D150
Arc Resistance	191 sec	191 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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