

## Plenco 1510 Polyester, Granular, Transfer 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-Granular-Transfer-Molded.php](http://www.lookpolymers.com/polymer_Plenco-1510-Polyester-Granular-Transfer-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ASTM D1895
Density	2.01 g/cc	0.0726 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.133 %	0.133 %	ASTM D570
Linear Mold Shrinkage	0.00153 cm/cm	0.00153 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	78	78	ASTM D785
Tensile Strength, Ultimate	77.0 MPa	11200 psi	ASTM D638
Elongation at Break	0.55 %	0.55 %	ASTM D638
Tensile Modulus	19.8 GPa	2870 ksi	ASTM D638
Flexural Strength	119 MPa	17300 psi	ASTM D790
Flexural Modulus	19.9 GPa	2890 ksi	ASTM D790
Compressive Strength	194 MPa	28100 psi	ASTM D695
Poissons Ratio	0.284	0.284	ASTM D638
Shear Modulus	7.71 GPa	1120 ksi	Calculated
Izod Impact, Notched	0.223 J/cm	0.418 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.274 J/cm <sup>2</sup>	1.30 ft-lb/in <sup>2</sup>	ASTM D256
Impact	123	123	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	54.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	30.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.228 W/m-K	0.0787 U-in/hr-ft <sup>2</sup> -F	ASTM E1461
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	213 °C	415 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	251 °C	484 °F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	25.5 %	25.5 %	ASTM D2863
Shrinkage	0.0167 %	0.0167 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.60e+15 ohm-cm	2.60e+15 ohm-cm	ASTM D247
Dielectric Constant	4.7	4.7	ASTM D150
Dielectric Strength	11.8 kV/mm	300 kV/in	Step by Step; ASTM D149
	15.5 kV/mm	394 kV/in	Short Time; ASTM D149
Dielectric Breakdown	23000 V	23000 V	1hr 120C; ASTM D149
Dissipation Factor	0.0149	0.0149	ASTM D150
Arc Resistance	192 sec	192 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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