

## Plenco 50015 PET, Pellet, Injection Molded, White (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

### Material Notes:

PLENCO 50015 is an engineering grade glass reinforced polyethylene terephthalate resin designed for increased flexibility and good physical strength. It is UL recognized and available in white, natural, and black. Information supplied by PlencoPlenco discontinued their PET product line in 2005.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-50015-PET-Pellet-Injection-Molded-White-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plenco-50015-PET-Pellet-Injection-Molded-White-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
Linear Mold Shrinkage	0.0022 cm/cm	0.0022 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	108.5 MPa	15740 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ASTM D638
Tensile Modulus	6.26 GPa	908 ksi	ASTM D638
Flexural Yield Strength	151 MPa	21900 psi	ASTM D790
Flexural Modulus	6.39 GPa	927 ksi	ASTM D790
Compressive Yield Strength	150.4 MPa	21810 psi	ASTM D695
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	203 °C	397 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	4.26e+17 ohm-cm	4.26e+17 ohm-cm	ASTM D257
Dielectric Constant	2.9 @Frequency 1e+6 Hz	2.9 @Frequency 1e+6 Hz	ASTM D150

Dielectric Strength Electrical Properties	15.9 kV/mm Metric	404 kV/in English	Short Time: ASTM D149 Comments
Dissipation Factor	0.015 @Frequency 1e+6 Hz	0.015 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	110 sec	110 sec	ASTM D495
Comparative Tracking Index	225 V	225 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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