

## Plenco 50045 PET, Pellet, Injection Molded, White (discontinued \*\*)

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

### Material Notes:

PLENCO 50045 is an engineering grade glass reinforced polyethylene terephthalate resin designed for higher physical strength. It is UL listed and available in white, natural, and black. Information supplied by Plenco Plenco discontinued their PET product line in 2005.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-50045-PET-Pellet-Injection-Molded-White-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plenco-50045-PET-Pellet-Injection-Molded-White-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.040 %	0.040 %	ASTM D570
Linear Mold Shrinkage	0.0027 cm/cm	0.0027 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	170.3 MPa	24700 psi	ASTM D638
Elongation at Break	1.45 %	1.45 %	ASTM D638
Tensile Modulus	14.69 GPa	2131 ksi	ASTM D638
Flexural Yield Strength	273 MPa	39600 psi	ASTM D790
Flexural Modulus	14.48 GPa	2100 ksi	ASTM D790
Compressive Yield Strength	193.7 MPa	28090 psi	ASTM D695
Izod Impact, Notched	1.09 J/cm	2.04 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	227 °C	441 °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	3.5 @Frequency 1e+6 Hz	3.5 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	18.0 kV/mm	457 kV/in	Short Time; ASTM D149

Electrical Properties	Metric	English	Comments
Dielectric Factor	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	ASTM D150
Arc Resistance	60 sec	60 sec	ASTM D495
Comparative Tracking Index	275 V	275 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