

## Plenco 50045 PET, Pellet, Injection Molded, Natural Color (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-Natural-Color-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plenco-50045-PET-Pellet-Injection-Molded-Natural-Color-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.72 g/cc	0.0621 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	186.2 MPa	27010 psi	ASTM D638
Elongation at Break	1.74 %	1.74 %	ASTM D638
Flexural Yield Strength	294 MPa	42600 psi	ASTM D790
Flexural Modulus	14.07 GPa	2041 ksi	ASTM D790
Compressive Yield Strength	179.2 MPa	25990 psi	ASTM D695
Izod Impact, Notched	1.08 J/cm	2.02 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	229 °C	444 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.70e+16 ohm-cm	1.70e+16 ohm-cm	ASTM D257
Dielectric Constant	3.4 @Frequency 1e+6 Hz	3.4 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	18.6 kV/mm	472 kV/in	Short Time; ASTM D149
	0.011	0.011	

Designation Factor Electrical Properties	Metric @ Frequency 1e+6 Hz	English @ Frequency 1e+6 Hz	ASTM D150 Comments
Arc Resistance	100 sec	100 sec	ASTM D495
Comparative Tracking Index	250 V	250 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