

Plenco 51045 PET, Pellet, Injection Molded, Black (discontinued **)

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

Material Notes:

PLENCO 51045 is an engineering grade glass reinforced polyethylene terephthalate resin designed for higher physical strength. It is UL listed and available in black only. 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-51045-PET-Pellet-Injection-Molded-Black-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.72 g/cc	0.0621 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	ASTM D570
Linear Mold Shrinkage	0.0012 cm/cm	0.0012 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	186.3 MPa	27020 psi	ASTM D638
Elongation at Break	1.63 %	1.63 %	ASTM D638
Tensile Modulus	16.71 GPa	2424 ksi	ASTM D638
Flexural Yield Strength	266 MPa	38600 psi	ASTM D790
Flexural Modulus	14.43 GPa	2093 ksi	ASTM D790
Compressive Yield Strength	192.9 MPa	27980 psi	ASTM D695
Izod Impact, Notched	0.810 J/cm	1.52 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.920 J/cm ²	4.38 ft-lb/in ²	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	6.97e+16 ohm-cm	6.97e+16 ohm-cm	ASTM D257
Dielectric Constant	3.5 @Frequency 1e+6 Hz	3.5 @Frequency 1e+6 Hz	ASTM D150

Electrical Properties	Metric ASTM D149	English ASTM D149	Comments ASTM D149
Dissipation Factor	0.012 @Frequency 1e+6 Hz	0.012 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	80 sec	80 sec	ASTM D495
Comparative Tracking Index	250 V	250 V	ASTM D3638

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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