

Plenco 50045 PET, Pellet, Injection Molded, Black (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-Black-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.73 g/cc	0.0625 lb/in ³	ASTM D792
Water Absorption	0.040 %	0.040 %	ASTM D570
Linear Mold Shrinkage	0.00080 cm/cm	0.00080 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	151.9 MPa	22030 psi	ASTM D638
Elongation at Break	1.19 %	1.19 %	ASTM D638
Tensile Modulus	14.86 GPa	2155 ksi	ASTM D638
Flexural Yield Strength	234 MPa	33900 psi	ASTM D790
Flexural Modulus	14.21 GPa	2061 ksi	ASTM D790
Compressive Yield Strength	171.4 MPa	24860 psi	ASTM D695
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	228 °C	442 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.92e+16 ohm-cm	2.92e+16 ohm-cm	ASTM D257
Dielectric Constant	3.3 @Frequency 1e+6 Hz	3.3 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	16.1 kV/mm	409 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	250 V	250 V	ASTM D3638

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