

Plenco 50030 PET, Pellet, Injection Molded, Black (discontinued **)

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

Material Notes:

PLENCO 50030 is an engineering grade glass reinforced polyethylene terephthalate resin designed for good 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-50030-PET-Pellet-Injection-Molded-Black-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
Linear Mold Shrinkage	0.0013 cm/cm	0.0013 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	147.8 MPa	21440 psi	ASTM D638
Elongation at Break	1.77 %	1.77 %	ASTM D638
Tensile Modulus	10.56 GPa	1532 ksi	ASTM D638
Flexural Yield Strength	215.6 MPa	31270 psi	ASTM D790
Flexural Modulus	10.27 GPa	1490 ksi	ASTM D790
Compressive Yield Strength	174.6 MPa	25320 psi	ASTM D695
Izod Impact, Notched	0.660 J/cm	1.24 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	221 °C	430 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	9.23e+17 ohm-cm	9.23e+17 ohm-cm	ASTM D257
Dielectric Constant	3.3 @Frequency 1e+6 Hz	3.3 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	16.3 kV/mm	414 kV/in	Short Time; ASTM D149

Electrical Properties	Metric	English	Comments
	mm	in	ASTM D149
Dissipation Factor	0.012	0.012	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	60 sec	60 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	ASTM D3638

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