

Plenco 50030 PET, Pellet, Injection Molded, Natural Color (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-Natural-Color-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	0.00070 cm/cm	0.00070 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	164.2 MPa	23820 psi	ASTM D638
Flexural Yield Strength	249.5 MPa	36190 psi	ASTM D790
Flexural Modulus	10.14 GPa	1471 ksi	ASTM D790
Compressive Yield Strength	193 MPa	28000 psi	ASTM D695
Izod Impact, Notched	0.840 J/cm	1.57 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	3.155e+16 ohm-cm	3.155e+16 ohm-cm	ASTM D257
Dielectric Constant	3.2 @Frequency 1e+6 Hz	3.2 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	18.0 kV/mm	457 kV/in	Short Time; ASTM D149
Dissipation Factor	0.012 @Frequency 1e+6 Hz	0.012 @Frequency 1e+6 Hz	ASTM D150

Arc Resistance Electrical Properties	110 sec Metric	110 sec English	ASTM D495 Comments
Comparative Tracking Index	225 V	225 V	ASTM D3638

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