

Plenco 50130 PET, Pellet, Injection Molded, Natural Color (discontinued **)

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

Material Notes:

PLENCO 50130 is an engineering grade glass reinforced UL flame rated polyethylene terephthalate resin designed for good physical strength. It is UL listed and available in 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-50130-PET-Pellet-Injection-Molded-Natural-Color-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.72 g/cc	0.0621 lb/in ³	ASTM D792
Water Absorption	0.070 %	0.070 %	ASTM D570
Linear Mold Shrinkage	0.00090 cm/cm	0.00090 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	136.6 MPa	19810 psi	ASTM D638
Elongation at Break	1.58 %	1.58 %	ASTM D638
Tensile Modulus	10.92 GPa	1584 ksi	ASTM D638
Flexural Yield Strength	214.5 MPa	31110 psi	ASTM D790
Flexural Modulus	10.76 GPa	1561 ksi	ASTM D790
Compressive Yield Strength	173.1 MPa	25110 psi	ASTM D695
Izod Impact, Notched	0.720 J/cm	1.35 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	224 °C	435 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	
Oxygen Index	31 %	31 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.5307e+16 ohm-cm	3.5307e+16 ohm-cm	ASTM D257
Dielectric Constant	3.1	3.1	ASTM D150

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Dielectric Strength	19.0 kV/mm	483 kV/in	Short Time; ASTM D149
Dissipation Factor	0.012	0.012	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	30 sec	30 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	ASTM D3638

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