

Plenco 50240 PET, Pellet, Injection Molded, Green (discontinued **)

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

Material Notes:

PLENCO 50240 is an engineering grade glass reinforced UL flame rated polyethylene terephthalate resin designed for excellent dimensional stability. 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-50240-PET-Pellet-Injection-Molded-Green-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.79 g/cc	0.0647 lb/in ³	ASTM D792
Water Absorption	0.040 %	0.040 %	ASTM D570
Linear Mold Shrinkage	0.0017 cm/cm	0.0017 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	121.5 MPa	17620 psi	ASTM D638
Elongation at Break	1.62 %	1.62 %	ASTM D638
Tensile Modulus	12.63 GPa	1832 ksi	ASTM D638
Flexural Yield Strength	172.7 MPa	25050 psi	ASTM D790
Flexural Modulus	10.58 GPa	1535 ksi	ASTM D790
Compressive Yield Strength	135.3 MPa	19620 psi	ASTM D695
Izod Impact, Notched	0.590 J/cm	1.11 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	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	9.63e+15 ohm-cm	9.63e+15 ohm-cm	ASTM D257
Dielectric Constant	3.7 @Frequency 1e+6 Hz	3.7 @Frequency 1e+6 Hz	ASTM D150

Dielectric Strength Electrical Properties	16.7 kV/mm Metric	424 kV/in English	Short Time: ASTM D149 Comments
Dissipation Factor	0.013 @Frequency 1e+6 Hz	0.013 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	40 sec	40 sec	ASTM D495
Comparative Tracking Index	225 V	225 V	ASTM D3638

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