

Plenco 50240 PET, Pellet, Injection Molded, Natural Color (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 PlencoPlenco 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-Natural-Color-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	0.0012 cm/cm	0.0012 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	121.8 MPa	17670 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	ASTM D638
Tensile Modulus	11.96 GPa	1735 ksi	ASTM D638
Flexural Yield Strength	183.3 MPa	26590 psi	ASTM D790
Flexural Modulus	10.12 GPa	1468 ksi	ASTM D790
Compressive Yield Strength	159.3 MPa	23100 psi	ASTM D695
Izod Impact, Notched	0.710 J/cm	1.33 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	222 °C	432 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.6 @Frequency 1e+6 Hz	3.6 @Frequency 1e+6 Hz	ASTM D150

Dielectric Strength Electrical Properties	17.3 kV/mm Metric	439 kV/in English	Short Time: ASTM D149 Comments
Dissipation Factor	0.011 @Frequency 1e+6 Hz	0.011 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	50 sec	50 sec	ASTM D495
Comparative Tracking Index	225 V	225 V	ASTM D3638

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