

Plenco 51240 PET, Pellet, Injection Molded, Black (discontinued **)

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Recycled, Glass Reinforced

Material Notes:

PLENCO 51240 is an engineering grade glass reinforced flame retarded recycled polyethylene terephthalate resin designed for excellent dimensional stability. It is UL listed. 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-51240-PET-Pellet-Injection-Molded-Black-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	118.4 MPa	17170 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	ASTM D638
Tensile Modulus	11.53 GPa	1672 ksi	ASTM D638
Flexural Yield Strength	177 MPa	25700 psi	ASTM D790
Flexural Modulus	10.72 GPa	1555 ksi	ASTM D790
Compressive Yield Strength	161.8 MPa	23470 psi	ASTM D695
Izod Impact, Notched	0.680 J/cm	1.27 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.0778e+16 ohm-cm	1.0778e+16 ohm-cm	ASTM D257
Dielectric Constant	3.8 @Frequency 1e+6 Hz	3.8 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	14.0 kV/mm	356 kV/in	Short Time; ASTM D149

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	ASTM D150
Arc Resistance	50 sec	50 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	ASTM D3638

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