

Plenco 50015 PET, Pellet, Injection Molded, Black (discontinued **)

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

Material Notes:

PLENCO 50015 is an engineering grade glass reinforced polyethylene terephthalate resin designed for increased flexibility and good physical strength. It is UL recognized 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-50015-PET-Pellet-Injection-Molded-Black-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Water Absorption	0.070 %	0.070 %	ASTM D570
Linear Mold Shrinkage	0.0021 cm/cm	0.0021 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	82.9 MPa	12000 psi	ASTM D638
Elongation at Break	1.29 %	1.29 %	ASTM D638
Flexural Yield Strength	125 MPa	18100 psi	ASTM D790
Flexural Modulus	6.06 GPa	879 ksi	ASTM D790
Compressive Yield Strength	152 MPa	22000 psi	ASTM D695
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	206 °C	403 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.47 mm	HB @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	3.2 @Frequency 1e+6 Hz	3.2 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	16.6 kV/mm	422 kV/in	Short Time; ASTM D149

Electrical Properties	Metric	English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	90 sec	90 sec	ASTM D495
Comparative Tracking Index	250 V	250 V	ASTM D3638

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