

Plenco 50335 PET, Pellet, Injection Molded, Natural Color (discontinued **)

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

Material Notes:

PLENCO 50335 is an engineering grade glass reinforced polyethylene terephthalate resin designed for excellent dimensional stability. It is UL listed 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-50335-PET-Pellet-Injection-Molded-Natural-Color-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	ASTM D792
Water Absorption	0.070 %	0.070 %	ASTM D570
Linear Mold Shrinkage	0.0024 cm/cm	0.0024 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	123.9 MPa	17970 psi	ASTM D638
Elongation at Break	1.99 %	1.99 %	ASTM D638
Flexural Yield Strength	187.2 MPa	27150 psi	ASTM D790
Flexural Modulus	8.74 GPa	1270 ksi	ASTM D790
Compressive Yield Strength	170.7 MPa	24760 psi	ASTM D695
Izod Impact, Notched	0.540 J/cm	1.01 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	9.14e+15 ohm-cm	9.14e+15 ohm-cm	ASTM D257
Dielectric Constant	3.7 @Frequency 1e+6 Hz	3.7 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	19.4 kV/mm	493 kV/in	Short Time; ASTM D149
	0.015	0.015	

Disipation Factor Electrical Properties	Metric @ Frequency 1e+6 Hz	English @ Frequency 1e+6 Hz	ASTM D150 Comments
Comparative Tracking Index	200 V	200 V	ASTM D3638

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