

Plenco 50335 PET, Pellet, Injection Molded, White (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-White-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.0018 cm/cm	0.0018 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	120.5 MPa	17480 psi	ASTM D638
Elongation at Break	1.81 %	1.81 %	ASTM D638
Tensile Modulus	9.47 GPa	1370 ksi	ASTM D638
Flexural Yield Strength	179.3 MPa	26010 psi	ASTM D790
Flexural Modulus	9.04 GPa	1310 ksi	ASTM D790
Compressive Yield Strength	172.7 MPa	25050 psi	ASTM D695
Izod Impact, Notched	0.560 J/cm	1.05 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	224 °C	435 °F	Heat resistance per ASTM D794
Deflection Temperature at 1.8 MPa (264 psi)	218 °C	424 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.96e+17 ohm-cm	3.96e+17 ohm-cm	ASTM D257
Dielectric Constant	3.5 @Frequency 1e+6 Hz	3.5 @Frequency 1e+6 Hz	ASTM D150

Electrical Properties	Metric ^{mm}	English ⁱⁿ	Comments ^{ASTM D149}
Dissipation Factor	0.013 @Frequency 1e+6 Hz	0.013 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	70 sec	70 sec	ASTM D495
Comparative Tracking Index	250 V	250 V	ASTM D3638

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