

Plenco 50125 PET, Pellet, Injection Molded, White (discontinued **)

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

Material Notes:

PLENCO 50125 is an engineering grade glass reinforced UL flame rated polyethylene terephthalate resin designed for excellent dimensional stability. It is UL listed and available in white only. 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-50125-PET-Pellet-Injection-Molded-White-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.83 g/cc	0.0661 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	144.3 MPa	20930 psi	ASTM D638
Elongation at Break	1.69 %	1.69 %	ASTM D638
Tensile Modulus	13.13 GPa	1904 ksi	ASTM D638
Flexural Yield Strength	179.1 MPa	25980 psi	ASTM D790
Flexural Modulus	10.82 GPa	1569 ksi	ASTM D790
Compressive Yield Strength	193 MPa	28000 psi	ASTM D695
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	247 °C	477 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.40e+16 ohm-cm	3.40e+16 ohm-cm	ASTM D257
Dielectric Constant	3.6 @Frequency 1e+6 Hz	3.6 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	14.8 kV/mm	376 kV/in	Short Time; ASTM D149

Electrical Properties Dissipation Factor	Metric	English	Comments ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	175 V	175 V	ASTM D3638

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