

Plenco 50030 PET, Pellet, Injection Molded, White (discontinued **)

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

Material Notes:

PLENCO 50030 is an engineering grade glass reinforced polyethylene terephthalate resin designed for good physical strength. It is UL listed and available in white, natural, and black. Information supplied by PlencoPlenco discontinued their PET product line in 2005.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-50030-PET-Pellet-Injection-Molded-White-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|-----------|
| Density | 1.60 g/cc | 0.0578 lb/in ³ | ASTM D792 |
| Water Absorption | 0.060 % | 0.060 % | ASTM D570 |
| Linear Mold Shrinkage | 0.0012 cm/cm | 0.0012 in/in | ATM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|---------------|-----------|
| Tensile Strength, Ultimate | 144.1 MPa | 20900 psi | ASTM D638 |
| Elongation at Break | 1.72 % | 1.72 % | ASTM D638 |
| Tensile Modulus | 10.14 GPa | 1471 ksi | ASTM D638 |
| Flexural Yield Strength | 227 MPa | 32900 psi | ASTM D790 |
| Flexural Modulus | 9.96 GPa | 1440 ksi | ASTM D790 |
| Compressive Yield Strength | 185.1 MPa | 26850 psi | ASTM D695 |
| Izod Impact, Notched | 0.720 J/cm | 1.35 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|----------------------------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 221 °C | 430 °F | ASTM D648 |
| Flammability, UL94 | HB @Thickness 1.47 mm | HB @Thickness 0.0579 in | |

| Electrical Properties | Metric | English | Comments |
|------------------------|---------------------------|---------------------------|-----------------------|
| Electrical Resistivity | 1.00e+17 ohm-cm | 1.00e+17 ohm-cm | ASTM D257 |
| Dielectric Constant | 3.2 @Frequency 1e+6 Hz | 3.2 @Frequency 1e+6 Hz | ASTM D150 |
| Dielectric Strength | 18.2 kV/mm | 462 kV/in | Short Time; ASTM D149 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------|--------------------|------------|
| Dielectric Factor | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | ASTM D150 |
| Arc Resistance | 70 sec | 70 sec | ASTM D495 |
| Comparative Tracking Index | 225 V | 225 V | ASTM D3638 |

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