

## Plenco 51335 PET, Pellet, Injection Molded, Black (discontinued \*\*)

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Recycled, Glass Reinforced

### Material Notes:

PLENCO 51335 is an engineering grade glass reinforced recycled polyethylene terephthalate resin designed for excellent dimensional stability. It is UL listed and available in black 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-51335-PET-Pellet-Injection-Molded-Black-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plenco-51335-PET-Pellet-Injection-Molded-Black-nbspdiscontinued-.php)

| Physical Properties   | Metric       | English                   | Comments  |
|-----------------------|--------------|---------------------------|-----------|
| Density               | 1.63 g/cc    | 0.0589 lb/in <sup>3</sup> | ASTM D792 |
| Water Absorption      | 0.060 %      | 0.060 %                   | ASTM D570 |
| Linear Mold Shrinkage | 0.0015 cm/cm | 0.0015 in/in              | ATM D955  |

| Mechanical Properties      | Metric     | English        | Comments  |
|----------------------------|------------|----------------|-----------|
| Hardness, Rockwell R       | 21         | 21             | ASTM D785 |
| Tensile Strength, Ultimate | 111.7 MPa  | 16200 psi      | ASTM D638 |
| Elongation at Break        | 1.36 %     | 1.36 %         | ASTM D638 |
| Tensile Modulus            | 9.29 GPa   | 1350 ksi       | ASTM D638 |
| Flexural Yield Strength    | 164.6 MPa  | 23870 psi      | ASTM D790 |
| Flexural Modulus           | 8.69 GPa   | 1260 ksi       | ASTM D790 |
| Compressive Yield Strength | 168.9 MPa  | 24500 psi      | ASTM D695 |
| Izod Impact, Notched       | 0.490 J/cm | 0.918 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric                   | English                    | Comments  |
|---------------------------------------------|--------------------------|----------------------------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 215 °C                   | 419 °F                     | ASTM D648 |
| Flammability, UL94                          | HB<br>@Thickness 1.47 mm | HB<br>@Thickness 0.0579 in |           |

| Electrical Properties  | Metric          | English         | Comments  |
|------------------------|-----------------|-----------------|-----------|
| Electrical Resistivity | 9.90e+15 ohm-cm | 9.90e+15 ohm-cm | ASTM D257 |
| Dielectric Constant    | 3.4             | 3.4             | ASTM D150 |

| Electrical Properties      | @Frequency 1e+6 Hz<br>Metric | @Frequency 1e+6 Hz<br>English | Comments              |
|----------------------------|------------------------------|-------------------------------|-----------------------|
| Dielectric Strength        | 15.1 kV/mm                   | 384 kV/in                     | Short Time; ASTM D149 |
| Dissipation Factor         | 0.013                        | 0.013                         | ASTM D150             |
|                            | @Frequency 1e+6 Hz           | @Frequency 1e+6 Hz            |                       |
| Arc Resistance             | 30 sec                       | 30 sec                        | ASTM D495             |
| Comparative Tracking Index | 225 V                        | 225 V                         | ASTM D3638            |

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