

Polyester (PBT) - Hydex

| Physical Properties | Metric | English | Comments |
|---|------------------------|----------------------------|--------------------------------------|
| Density | 1.31 g/cc | 0.0473 lb/in ³ | ASTM D792 |
| Water Absorption | 0.0800 % | 0.0800 % | ASTM D570 |
| Linear Mold Shrinkage | 0.0190 cm/cm | 0.0190 in/in | Flow Direction |
| Mechanical Properties | Metric | English | Comments |
| Hardness, Rockwell M | 72.0 | 72.0 | ISO 2039-2 |
| Tensile Strength, Yield | 60.0 MPa | 8700 psi | ISO 527 |
| Elongation at Break | >= 200 % | >= 200 % | ASTM D638 |
| Flexural Modulus | 2.20 GPa | 319 ksi | ISO 178 |
| Flexural Yield Strength | 80.0 MPa | 11600 psi | ISO 178 |
| Izod Impact, Notched (ISO) | 5.50 kJ/m ² | 2.62 ft-lb/in ² | ISO 180/1A |
| Electrical Properties | Metric | English | Comments |
| Electrical Resistivity | >= 1.00e+16 ohm-cm | >= 1.00e+16 ohm-cm | ASTM D257 |
| Dielectric Constant, Low Frequency | 3.20 | 3.20 | 100 Hz |
| Dielectric Strength | 16.0 kV/mm | 406 kV/in | 3.2 mm (0.125 in); 50% RH; ASTM D149 |
| Dissipation Factor, Low Frequency | 0.00100 | 0.00100 | 100 Hz |
| Thermal Properties | Metric | English | Comments |
| Deflection Temperature at 0.46 MPa (66 psi) | 150 Å°C | 302 Å°F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 50.0 Å°C | 122 Å°F | ISO 75 |
| Flammability, UL94 | HB | HB | 0.8 mm; UL94 |