

## Technical Data Sheet

### *Perlex* R2510 IRON 6-2520



Polycarbonate

#### Product Description

*Perlex* R2510 IRON 6-2520 is a Polycarbonate Glass Fiber, 10% filled material.

**Application** Electrical Parts; Housings

**Filler/Reinforcement** Glass Fiber, 10%

| Typical Properties                                      | Nominal Value | Units             | Test Method |
|---------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                         |               |                   |             |
| Melt Flow Rate, (300 °C/1.2 kg)                         | 13            | g/10 min          | ISO 1133    |
| Density                                                 | 1.25          | g/cm <sup>3</sup> | ISO 1183    |
| <b>Mechanical</b>                                       |               |                   |             |
| Tensile Stress at Yield                                 | 75            | MPa               | ISO 527-2   |
| Flexural Modulus                                        | 3900          | MPa               | ISO 178     |
| Tensile Modulus                                         | 4050          | MPa               | ISO 527-1   |
| Flexural Stress                                         | 135           | MPa               | ISO 178     |
| <b>Impact</b>                                           |               |                   |             |
| Notched Izod Impact (Area), (23 °C)                     | 10.0          | kJ/m <sup>2</sup> | ASTM D256   |
| <b>Thermal</b>                                          |               |                   |             |
| Vicat Softening Temperature, (B (50N), 50 °C/h)         | 145           | °C                | ISO 306     |
| Deflection Temperature Under Load Unannealed (0.45 MPa) | 135           | °C                | ISO 75-2/B  |
| Deflection Temperature Under Load Unannealed (1.80 MPa) | 128           | °C                | ISO 75-2/A  |
| <b>Flammable</b>                                        |               |                   |             |
| Burning Rate                                            |               |                   |             |
| (2.00 mm)                                               | <100          | mm/min            | FMVSS 302   |
| (2.00 mm)                                               | <100          | mm/min            | ISO 3795    |
| <b>UL Information</b>                                   |               |                   |             |
| Flame Rating                                            | HB            |                   | UL 94       |