

## Technical Data Sheet

### Perlex R5553 TR BLACK 2-0480



Polycarbonate

#### Product Description

Perlex R5553 TR BLACK 2-0480 is a Polycarbonate material. Features include: UV Resistant.

|             |                                |
|-------------|--------------------------------|
| Attribute   | UV Resistant                   |
| Appearance  | Clear/Transparent              |
| Additive    | Flame Retardant; UV Stabilizer |
| Application | Electrical Parts               |

| Typical Properties                                      | Nominal Value | Units             | Test Method    |
|---------------------------------------------------------|---------------|-------------------|----------------|
| <b>Physical</b>                                         |               |                   |                |
| Melt Flow Rate, (300 °C/1.2 kg)                         | 12            | g/10 min          | ISO 1133       |
| Density                                                 | 1.2           | g/cm <sup>3</sup> | ISO 1183       |
| <b>Mechanical</b>                                       |               |                   |                |
| Tensile Stress at Yield                                 | 60            | MPa               | ISO 527-2      |
| Tensile Strain at Break                                 | >50           | %                 | ISO 527-2      |
| Flexural Modulus                                        | 2400          | MPa               | ISO 178        |
| Tensile Modulus                                         | 2300          | MPa               | ISO 527-1      |
| Flexural Stress                                         | 95            | MPa               | ISO 178        |
| <b>Impact</b>                                           |               |                   |                |
| Notched Izod Impact (Area), (23 °C)                     | 15.0          | 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) | 130           | °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       |
| Glow Wire Ignition Temperature                          |               |                   |                |
| (3.0 mm)                                                | 960           | °C                | IEC 60695-2-13 |
| (2.0 mm)                                                | 960           | °C                | IEC 60695-2-13 |
| (1.0 mm)                                                | 960           | °C                | IEC 60695-2-13 |
| <b>UL Information</b>                                   |               |                   |                |
| Flame Rating                                            |               |                   |                |
| (1.6 mm)                                                | V-2           |                   | UL 94          |
| (3.2 mm)                                                | V-0           |                   | UL 94          |