

Technical Data Sheet

Perlex R5553 WHITE 1-1958 RM2283



Polycarbonate

Product Description

Perlex R5553 WHITE 1-1958 RM2283 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 |
|---|---------------|-------------------|----------------|
| Physical | | | |
| Melt Flow Rate, (300 °C/1.2 kg) | 12 | g/10 min | ISO 1133 |
| Density | 1.2 | g/cm ³ | ISO 1183 |
| Mechanical | | | |
| 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 |
| Impact | | | |
| Notched Izod Impact (Area), (23 °C) | 15.0 | kJ/m ² | ASTM D256 |
| Thermal | | | |
| 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 |
| Flammable | | | |
| 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 |
| UL Information | | | |
| Flame Rating | | | |
| (1.6 mm) | V-2 | | UL 94 |
| (3.2 mm) | V-0 | | UL 94 |