

Technical Data Sheet

Perlex R223-IX BLACK 2-0748



Polycarbonate

Product Description

Perlex R223-IX BLACK 2-0748 is a Polycarbonate material. Features include: UV Stabilized.

Attribute UV Stabilized

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|----------------|
| Physical | | | |
| Melt Flow Rate, (300 °C/1.2 kg) | 16 | 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 Yield | 5 | % | ISO 527-2 |
| Tensile Modulus | 2350 | MPa | ISO 527-1 |
| Flexural Stress | 90 | MPa | ISO 178 |
| Impact | | | |
| Charpy Impact Strength - Notched, (23 °C) | 45 | kJ/m ² | ISO 179 |
| Charpy Impact Strength - Unnotched, (23 °C) | No Break | | ISO 179 |
| Hardness | | | |
| Ball Pressure Test, (125 °C) | Pass | | IEC 60695-10-2 |
| Thermal | | | |
| Vicat Softening Temperature, (B (50N), 50 °C/h) | 142 | °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) | 125 | °C | ISO 75-2/A |
| Flammable | | | |
| Burning Rate, (2.00 mm) | <75 | mm/min | ISO 3795 |
| Glow Wire Flammability Index | 850 | °C | IEC 60695-2-12 |
| UL Information | | | |
| Flame Rating | | | |
| (3.2 mm) | HB | | UL 94 |
| (1.5 mm) | HB | | UL 94 |