

Perlex R3510 LIGHT GREY 6-2949

LyondellBasell Industries - Polycarbonate

General Information

Product Description

Perlex R3510 LIGHT GREY 6-2949 is a Polycarbonate Glass Fiber, 10% filled material.

General

| | |
|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 10% Filler by Weight |
| Additive | • Flame Retardant |
| Features | • Flame Retardant |
| Uses | • Machine/Mechanical Parts |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-----------------------|-------------|
| Density | 1.25 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg) | 10 | g/10 min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 587000 | psi | ISO 527-1 |
| Tensile Stress (Yield) | 10900 | psi | ISO 527-2 |
| Tensile Stress (Break) | 12000 | psi | ISO 527-2 |
| Tensile Strain (Yield) | 5.0 | % | ISO 527-2 |
| Tensile Strain (Break) | 5.0 | % | ISO 527-2 |
| Flexural Modulus | 566000 | psi | ISO 178 |
| Flexural Stress | 19600 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | | | ISO 179 |
| -22°F | 2.9 | ft·lb/in ² | |
| 73°F | 2.9 | ft·lb/in ² | |
| Charpy Unnotched Impact Strength | | | ISO 179 |
| -22°F | 28 | ft·lb/in ² | |
| 73°F | 32 | ft·lb/in ² | |
| Notched Izod Impact (Area) (73°F) | 4.76 | ft·lb/in ² | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 275 | °F | ISO 75-2/B |
| Deflection Temperature Under Load 264 psi, Unannealed | 262 | °F | ISO 75-2/A |
| Vicat Softening Temperature | | | |
| -- | 293 | °F | ISO 306/B50 |
| -- | 306 | °F | ISO 306/A50 |
| RTI Elec | | | UL 746B |
| 0.06 in | 176 | °F | |
| 0.13 in | 176 | °F | |
| RTI Imp | | | UL 746B |
| 0.06 in | 176 | °F | |
| 0.13 in | 176 | °F | |

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| Thermal | Nominal Value | Unit | Test Method |
|--------------------------------|----------------------|-------------|--------------------|
| RTI Str | | | UL 746B |
| 0.06 in | 176 | °F | |
| 0.13 in | 176 | °F | |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | > 1.0E+15 | ohms | IEC 60093 |
| Volume Resistivity | > 1.0E+13 | ohms·m | IEC 62631-3-1 |
| Comparative Tracking Index | 175 | V | IEC 60112 |
| Flammability | Nominal Value | Unit | Test Method |
| Burning Rate | | | |
| 0.0787 in | 0.0 | in/min | FMVSS 302 |
| 0.0787 in | 0.0 | in/min | ISO 3795 |
| Flame Rating | | | UL 94 |
| 0.06 in | V-0 | | |
| 0.13 in | V-0 | | |
| Glow Wire Ignition Temperature | | | IEC 60695-2-13 |
| 0.04 in | 1760 | °F | |
| 0.08 in | 1760 | °F | |
| 0.12 in | 1760 | °F | |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|----------------------|-------------|
| Drying Temperature | 230 to 248 | °F |
| Drying Time | 3.0 to 4.0 | hr |
| Processing (Melt) Temp | 518 to 590 | °F |
| Mold Temperature | 122 to 176 | °F |

Notes

¹ Typical properties: these are not to be construed as specifications.