

Product Texts

LNP ELCRIN SLX2271TB is an injection moldable, weatherable product that offers enhanced UV stabilization. This medium flow (17 MFR) resin provides good processability with added mold release. Suitable for potential paint elimination through a wide range of high gloss opaque colors. Also available in transparent or tints. Certified Renewable Copolymer resin based on bio-based feedstocks. Renewable content certified by ISCC+ mass balance methodology. SLX2271TB is an excellent candidate for a broad range of automotive, building and construction, electrical, consumer, and electronics applications.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|--------|------------------------|---------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 16 | cm ³ /10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| ASTM Data | | | |
| Melt Flow Index, MFI | 17.5 | g/10min | ASTM D 1238 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| Mold Shrinkage, MD | 0.0035 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 2300 | MPa | ISO 527 |
| Yield stress | 67 | MPa | ISO 527 |
| Yield strain | 6 | % | ISO 527 |
| Stress at break | 70 | MPa | ISO 527 |
| Strain at break | 100 | % | ISO 527 |
| Flexural modulus, 23°C | 2450 | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | 65 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 15 | kJ/m ² | ISO 179/1eA |
| Izod impact strength, +23°C | N | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C | 65 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength | 10 | kJ/m ² | ISO 180/1A |
| Temperature | -30 | °C | - |
| ASTM Data | | | |
| Tensile Modulus | 2400 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 65 | MPa | ASTM D 638 |
| Tensile Strength at Break | 67 | MPa | ASTM D 638 |
| Elongation at Yield | 6 | % | ASTM D 638 |
| Elongation at Break | 100 | % | ASTM D 638 |
| Flexural Modulus | 2450 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 780 | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | 130 | J/m | ASTM D 256 |
| Temperature | -30 | °C | - |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 124 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 139 | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 70 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 70 | E-6/K | ISO 11359-1/-2 |
| ASTM Data | | | |
| Coefficient of Thermal Expansion, MD | 70 | E-6/K | ASTM D 696 |
| Coefficient of Thermal Expansion, TD | 70 | E-6/K | ASTM D 696 |
| DTUL @ 264 psi | 124 | °C | ASTM D 648 |
| Vicat Temperature | 139 | °C | ASTM D 1525 |

| Optical properties | Value | Unit | Test Standard |
|---------------------|-------|------|---------------|
| ASTM Data | | | |
| Haze | 0.6 | % | ASTM D 1003 |
| Light Transmittance | 89 | % | ASTM D 1003 |

| Other properties | Value | Unit | Test Standard |
|---------------------|-------|-------------------|----------------|
| Water absorption | 0.35 | % | Sim. to ISO 62 |
| Humidity absorption | 0.15 | % | Sim. to ISO 62 |
| Density | 1200 | kg/m ³ | ISO 1183 |
| Density | 1200 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 120 | °C | - |
| Pre-drying - Time | 2 - 4 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 280 - 310 | °C | - |
| Mold temperature | 80 - 110 | °C | - |
| Feed temperature | 60 - 80 | °C | - |
| Zone 1 | 260 - 280 | °C | - |
| Zone 2 | 270 - 290 | °C | - |
| Zone 3 | 280 - 310 | °C | - |
| Nozzle temperature | 270 - 290 | °C | - |

Characteristics

Processing

Injection Molding

Additives

Release agent

Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather, Transparent, Opaque, Translucent

Features

Color Stability, High Gloss, Copolymer

Certifications

Contains renewable resources, ISCC Plus

Applications

Automotive, Building Construction, IT / Business Machine, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America