

Product Texts

LNP ELCRIN 610001UXiQ compound is based on Polycarbonate / Polybutylene Terephthalate (PC/PBT) blend, utilizing ELCRIN iQ upcycling technology containing minimum 12% Post-Consumer Recycling (PCR) weight content. Added features of this grade include: Non-Chlorinated, Non-Brominated Flame Retardant, Good Flow, High Impact, Improved Chemical Resistance, UV Resistant.

UL Yellow Card Link [E207780-100745645](https://www.ul.com/yellow-card-link/E207780-100745645)

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|---------|---------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 26 | g/10min | ASTM D 1238 |
| Temperature | 266 | °C | - |
| Load | 5 | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| ASTM Data | | | |
| Tensile Modulus | 2480 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 63 | MPa | ASTM D 638 |
| Tensile Strength at Break | 42 | MPa | ASTM D 638 |
| Elongation at Yield | 4 | % | ASTM D 638 |
| Elongation at Break | 65 | % | ASTM D 638 |
| Flexural Modulus | 2240 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 550 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------|-----------------|
| ISO Data | | | |
| Burning behav. at 1.5 mm nom. thickn. | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| Burning behav. at thickness h | V-1 | class | IEC 60695-11-10 |
| Thickness tested | 1.1 | mm | - |
| Burning behav. 5V at thickness h | 5VB | class | IEC 60695-11-20 |
| Thickness tested | 2.5 | mm | - |
| ASTM Data | | | |
| DTUL @ 264 psi | 77 | °C | ASTM D 648 |
| Vicat Temperature | 100 | °C | ASTM D 1525 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1200 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Pre-drying - Temperature | 80 - 90 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Processing humidity | ≤0.04 | % | - |
| Melt temperature | 245 - 275 | °C | - |
| Mold temperature | 60 - 80 | °C | - |
| Zone 1 | 220 - 255 | °C | - |
| Zone 2 | 220 - 265 | °C | - |
| Zone 3 | 245 - 275 | °C | - |
| Screw speed | 40 - 70 | rpm | - |
| Back pressure | 0.3 - 0.7 | MPa | - |

Characteristics**Processing**

Injection Molding

Additives

Flame retarding agent

Certifications

Recycled Resin Content

Applications

Automotive

Special Characteristics

Flame retardant

Regional Availability

North America, Europe, Asia Pacific

Chemical Resistance

General Chemical Resistance