# LNP™ ELCRES™ CRX9411W

PC — Saudi Basic Industries Corporation (SABIC)

## Product Texts

LNP ELCRES CRX9411W is an amorphous PC copolymer resin that offers medium flow, UL V0 rating @ 1.6 mm for all colors, and high ductility in combination with excellent chemical resistance. CRX9411W is available for custom coloring and may be an excellent candidate for a wide variety of applications that need improved chemical resistance. This grade is subjected to SABIC healthcare management of change policy and formulation lock.

UL Yellow Card Link E121562-104302666

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|---|---|---|
| **ASTM Data** | | | |
| Melt Flow Index, MFI | **10** | g/10min | ASTM D 1238 |
| Temperature | **300** | °C | - |
| Load | **1.2** | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ASTM Data** | | | |
| Tensile Modulus | **1920** | MPa | ASTM D 638 |
| Tensile Strength at Yield | **52** | MPa | ASTM D 638 |
| Elongation at Yield | **6** | % | ASTM D 638 |
| Elongation at Break | **100** | % | ASTM D 638 |
| Flexural Modulus | **2000** | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | **765** | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | **680** | J/m | ASTM D 256 |
| Temperature | **-30** | °C | - |

| 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 | **1.6** | mm | - |
| **ASTM Data** | | | |
| DTUL @ 66 psi | **138** | °C | ASTM D 648 |
| DTUL @ 264 psi | **125** | °C | ASTM D 648 |
| Vicat Temperature | **142** | °C | ASTM D 1525 |

| Other properties | Value | Unit | Test Standard |
|---|---|---|---|
| Density | **1200** | kg/m³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|---|---|---|
| Pre-drying - Temperature | **120** | °C | - |
| Pre-drying - Time | **3 - 4** | h | - |
| Processing humidity | **≤0.02** | % | - |
| Melt temperature | **290 - 340** | °C | - |
| Mold temperature | **80 - 110** | °C | - |
| Zone 1 | **270 - 320** | °C | - |
| Zone 2 | **280 - 330** | °C | - |
| Zone 3 | **290 - 340** | °C | - |
| Screw speed | **50 - 100** | rpm | - |
| Back pressure | **0.3 - 0.7** | MPa | - |

## Characteristics

**Processing**
Injection Molding

**Regional Availability**
North America, Europe, Asia Pacific

**Chemical Resistance**
General Chemical Resistance


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