

Product Texts

Improved flow PC with excellent processability and mold release.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|--------------|------------------------|----------------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 18 | cm ³ /10min | ISO 1133 |
| Temperature | 220 | °C | - |
| Load | 5 | kg | - |
| ASTM Data | | | |
| Melt Flow Index, MFI | 19.5 | g/10min | ASTM D 1238 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|--|--------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 2450 | MPa | ISO 527 |
| Yield stress | 60 | MPa | ISO 527 |
| Yield strain | 6 | % | ISO 527 |
| Stress at break | 59 | MPa | ISO 527 |
| Strain at break | 50 | % | ISO 527 |
| Flexural modulus | 2310 | MPa | ISO 178 |
| Charpy impact strength, +23°C, 3mm | N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C, 3mm | N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C, 3mm | 65 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C, 3mm | 12 | kJ/m ² | ISO 179/1eA |
| Izod impact strength, +23°C | N | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 3mm | 65 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -30°C, 3mm | 11 | kJ/m ² | ISO 180/1A |
| ASTM Data | | | |
| Tensile Modulus | 2320 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 60 | MPa | ASTM D 638 |
| Tensile Strength at Break | 60 | MPa | ASTM D 638 |
| Elongation at Yield | 6 | % | ASTM D 638 |
| Elongation at Break | 117 | % | ASTM D 638 |
| Flexural Modulus | 2360 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 828 | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | 242 | J/m | ASTM D 256 |
| Temperature | -30 | °C | - |

| Thermal properties | Value | Unit | Test Standard |
|--|--------------|-------------|----------------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 122 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 141 | °C | ISO 306 |
| Vicat softening temperature, 120°C/h 50N | 140 | °C | ISO 306 |
| ASTM Data | | | |
| DTUL @ 264 psi | 128 | °C | ASTM D 648 |
| Vicat Temperature | 141 | °C | ASTM D 1525 |

| 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 | 3 - 4 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 295 - 315 | °C | - |

LEXAN™ Copolymer MPX3 - Americas

PC

Saudi Basic Industries Corporation (SABIC)

| | | | |
|------------------|------------------|-----|---|
| Mold temperature | 70 - 95 | °C | - |
| Zone 1 | 270 - 295 | °C | - |
| Zone 2 | 280 - 305 | °C | - |
| Zone 3 | 295 - 315 | °C | - |
| Screw speed | 40 - 70 | rpm | - |
| Back pressure | 0.3 - 0.7 | MPa | - |

Characteristics**Processing**

Injection Molding

Regional Availability

North America

Applications

Automotive