

Product Texts

LEXAN FST9405 resin is a high flow PC Copolymer Resin, suitable for injection molding. This halogen-free flame retardant resin is OSU55/55 and FAR25.853 compliant and an ideal candidate for aircraft interior applications. Available in opaque colors.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------------------------|---------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 10 | cm ³ /10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| ASTM Data | | | |
| Melt Flow Index, MFI | 9 | g/10min | ASTM D 1238 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 2600 | MPa | ISO 527 |
| Yield stress | 77 | MPa | ISO 527 |
| Yield strain | 6 | % | ISO 527 |
| Stress at break | 70 | MPa | ISO 527 |
| Strain at break | 50 | % | ISO 527 |
| Flexural modulus | 2500 | MPa | ISO 178 |
| Charpy impact strength, +23°C | N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | N | kJ/m ² | ISO 179/1eU |
| 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 | N | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | N | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, +23°C, 3mm | N | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C, 3mm | N | kJ/m ² | ISO 179/1eA |
| Izod impact strength, +23°C | N | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 11 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -30°C, 4mm | 9 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength, +23°C, 3mm | 12 | kJ/m ² | ISO 180/1A |
| ASTM Data | | | |
| Tensile Modulus | 2600 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 77 | MPa | ASTM D 638 |
| Tensile Strength at Break | 70 | MPa | ASTM D 638 |
| Elongation at Yield | 6 | % | ASTM D 638 |
| Elongation at Break | 75 | % | ASTM D 638 |
| Flexural Modulus | 2700 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 130 | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | 85 | J/m | ASTM D 256 |
| Temperature | -30 | °C | - |

| Thermal properties | Value | Unit | Test Standard |
|--|-------|------|---------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 94 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 104 | °C | ISO 75-1/-2 |
| Vicat softening temperature, 120°C/h 50N | 113 | °C | ISO 306 |
| ASTM Data | | | |
| DTUL @ 66 psi | 105 | °C | ASTM D 648 |
| DTUL @ 264 psi | 95 | °C | ASTM D 648 |
| Vicat Temperature | 114 | °C | ASTM D 1525 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1330 | kg/m ³ | ISO 1183 |
| Density | 1330 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature | 95 - 100 | °C | - |
| Pre-drying - Time | 6 - 8 | h | - |
| Melt temperature | 250 - 280 | °C | - |
| Mold temperature | 50 - 80 | °C | - |
| Zone 1 | 230 - 250 | °C | - |
| Zone 2 | 240 - 270 | °C | - |
| Zone 3 | 250 - 280 | °C | - |
| Screw speed | 40 - 70 | rpm | - |
| Back pressure | 0.3 - 0.7 | MPa | - |

Characteristics**Processing**

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Applications

Automotive

Regional Availability

Asia Pacific