

Product Texts

LEXAN FST3403 resin is a high flow PC Copolymer Resin, suitable for injection molding. This halogen-free flame retardant resin is EN45545 R6 HL3 compliant and an ideal candidate for train interior applications (category R6). It also meets requirements of DIN5510-2, NFPA-130 and PN-K-02511 standards. 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	12	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	2700	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	14	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, +23°C, 3mm	13	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	5	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod impact strength, +23°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	12	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m ²	ISO 180/1A
Izod notched impact strength, +23°C, 3mm	13	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	6	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	80	%	ASTM D 638
Flexural Modulus	2500	MPa	ASTM D 790
Izod Impact notched, 1/8 in	130	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	90	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	95	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	105	°C	ISO 75-1/-2
Vicat softening temperature, B	114	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	115	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	104	°C	ASTM D 648
DTUL @ 264 psi	93	°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 - 290	°C	-
Mold temperature	50 - 80	°C	-
Zone 1	230 - 260	°C	-
Zone 2	240 - 280	°C	-
Zone 3	250 - 290	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

Asia Pacific