

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

North America