

Product Texts

LEXAN FXD143R is Transparent/translucent PC for light diffusion special effects. MFR of 10.8. Color package may affect performance. UV-stabilized.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	11	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Mechanical properties			
ISO Data			
Tensile Modulus	2350	MPa	ISO 527
Yield stress	63	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	70	MPa	ISO 527
Strain at break	110	%	ISO 527
Flexural modulus, 23°C	2300	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 notched impact strength, +23°C	73	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	14	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	70	kJ/m ²	ISO 180/1A
Izod notched impact strength	12	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
Ball indentation hardness	95	MPa	ISO 2039-1
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	125	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	136	°C	ISO 75-1/-2
Vicat softening temperature, B	141	°C	ISO 306
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
Oxygen index	25	%	ISO 4589-1/-2
Electrical properties			
ISO Data			
Relative permittivity, 1MHz	2.7	-	IEC 62631-2-1
Dissipation factor, 1MHz	100	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	17	kV/mm	IEC 60243-1
Comparative tracking index	250	-	IEC 60112
Other properties			
Water absorption	0.35	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1200	kg/m ³	ISO 1183
Processing Recommendation Injection Molding			
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	280 - 310	°C	-
Mold temperature	80 - 110	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	260 - 280	°C	-

Zone 2	270 - 290	°C	-
Zone 3	280 - 310	°C	-
Nozzle temperature	270 - 290	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

U.V. stabilized or stable to weather, Transparent, Translucent

Features

Light Diffusing

Applications

Automotive, Electrical and Electronical

Regional Availability

Europe