

Product Texts

LEXAN FXE4271L is a 10% glass filled, impact modified polycarbonate with excellent light-shield capability. It is designed for high flow, superior surface appearance, enhance release and good impact ductility. FXE4271L is available in white color only and ideal for light-shield applications.

UL Yellow Card Link [F207780-101619221](https://www.ul.com/yellow-card/F207780-101619221)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	14	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	3850	MPa	ASTM D 638
Tensile Strength at Yield	48	MPa	ASTM D 638
Tensile Strength at Break	37	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	11	%	ASTM D 638
Flexural Modulus	3600	MPa	ASTM D 790
Izod Impact notched, 1/8 in	205	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1880	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, 120°C/h 50N	132	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.4	mm	-
ASTM Data			
DTUL @ 66 psi	127	°C	ASTM D 648
DTUL @ 264 psi	120	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water absorption	0.13	%	Sim. to ISO 62
Humidity absorption	0.04	%	Sim. to ISO 62
Density	1250	kg/m ³	ISO 1183
Density	1250	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	290 - 310	°C	-
Mold temperature	70 - 95	°C	-
Zone 1	265 - 290	°C	-
Zone 2	275 - 300	°C	-
Zone 3	290 - 310	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

Asia Pacific

Special Characteristics

High impact or impact modified