

LEXAN™ FXEMPX1L resin

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

Opaque EXL, UV-Stabilized & light shielding capability, for portable electronics device enclosure application. Only available in white, grey and limited pastel colors. Consult CIC or PM for color availability & limitation.

General Information			
Additive	UV stabilizer		
Features	Good UV resistance		
Uses	Electrical housing		
Appearance	White		
	Opacity		
	Grey		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	15.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2040	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	51.0	MPa	ASTM D638
Fracture	46.0	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield	5.0	%	ASTM D638
Fracture	66	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	1990	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	530	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	114	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60 - 80	°C	
Rear Temperature	260 - 280	°C	

Middle Temperature	280 - 305	°C
Front Temperature	295 - 315	°C
Nozzle Temperature	290 - 310	°C
Processing (Melt) Temp	295 - 315	°C
Mold Temperature	70 - 95	°C

NOTE

1.	50 mm/min
2.	Type 1, 50mm/min
3.	Type 1, 50mm/min
4.	1.3 mm/min
5.	1.3 mm/min

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