

LEXAN™ FXE1414L resin

Polycarbonate

SABIC Innovative Plastics

Message:

Opaque EXL, UV-Stabilized & light shielding capability (Wall thickness >0.8mm), 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		
Uses	Electrical housing		
RoHS Compliance	RoHS compliance		
Appearance	White		
	Opacity		
	Grey		
	Available colors		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	11	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	10.0	cm³/10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.80	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.17	%	ISO 62
Equilibrium, 23°C, 50% RH	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2040	MPa	ASTM D638
--	2010	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	52.0	MPa	ASTM D638
Yield	52.0	MPa	ISO 527-2/50
Fracture ³	54.0	MPa	ASTM D638
Fracture	47.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	5.0	%	ASTM D638
Yield	5.0	%	ISO 527-2/50
Fracture ⁵	84	%	ASTM D638
Fracture	75	%	ISO 527-2/50
Flexural Modulus			

50.0mm span ⁶	2050	MPa	ASTM D790
-- ⁷	2110	MPa	ISO 178
Flexural Stress			
--	83.0	MPa	ISO 178
Yield, 50.0mm span ⁸	86.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	640	J/m	ASTM D256
23°C	770	J/m	ASTM D256
Instrumented Dart Impact (23°C, Total Energy)	68.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	121	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁹	118	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	138	°C	ASTM D1525, ISO 306/B50 ¹⁰
--	146	°C	ISO 306/B120
Linear thermal expansion coefficient			
Flow: -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	6.7E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	8.2E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (0.400 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 - 80.0	°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	70.0 - 95.0	°C	
NOTE			
1.	50 mm/min		
2.	Type 1, 50mm/min		
3.	Type 1, 50mm/min		
4.	Type 1, 50mm/min		
5.	Type 1, 50mm/min		
6.	1.3 mm/min		

7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4 mm
10.	标准 B (120°C/h), 载荷2 (50N)

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