

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		
Appearance	White		
	Opacity		
	Grey		
	Available colors		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	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	cm ³ /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
Charpy Notched Impact Strength ⁹ (23°C)	55	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-30°C	640	J/m	ASTM D256
23°C	770	J/m	ASTM D256
-30°C ¹⁰	46	kJ/m ²	ISO 180/1A
23°C ¹¹	56	kJ/m ²	ISO 180/1A
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 ¹²	118	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	138	°C	ASTM D1525, ISO 306/B50 11 ¹³
--	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 sp=62mm
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	标准 B (120°C/h), 载荷2 (50N)

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