

LEXAN™ FXE121R resin

Polycarbonate
SABIC Innovative Plastics

Message:
Transparent PC. ILLUMINATE special effects (fluorescent/edge glow colors). MFR 18.2. Internal mold release.

General Information			
UL YellowCard	E121562-220939		
Additive	Mold Release		
Appearance	Clear/Transparent		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2170	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	62.1	MPa	
Break	68.9	MPa	
Tensile Elongation ³			ASTM D638
Yield	7.0	%	
Break	130	%	
Flexural Modulus ⁴ (50.0 mm Span)	2340	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	750	J/m	ASTM D256
Unnotched Izod Impact (23°C)	3200	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	62.1	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	138	°C	
0.45 MPa, Unannealed, 6.40 mm	138	°C	
1.8 MPa, Unannealed, 3.20 mm	127	°C	
1.8 MPa, Unannealed, 6.40 mm	129	°C	
Vicat Softening Temperature	154	°C	ASTM D1525 ⁶
NOTE			
1.	50 mm/min		
2.	Type I, 50 mm/min		
3.	Type I, 50 mm/min		

4.	1.3 mm/min
5.	1.3 mm/min
6.	Rate B (120°C/h), Loading 2 (50 N)

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