

LEXAN™ LUX1814N resin

Polycarbonate

SABIC Innovative Plastics

Message:

Grade for extrusion lighting applications meeting NSF requirements

General Information			
UL YellowCard	E121562-101413590		
Uses	Lighting Applications		
Agency Ratings	NSF Not Rated		
Processing Method	Extrusion		
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)	3.2	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.60 - 0.90	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2300	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	62.0	MPa	ASTM D638
Fracture	60.0	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield	7.0	%	ASTM D638
Fracture	91	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	2370	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	98.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	110	J/m	ASTM D256
23°C	830	J/m	ASTM D256
Instrumented Dart Impact (23°C, Energy at Peak Load)	72.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	141	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	127	°C	ASTM D648
Vicat Softening Temperature	145	°C	ASTM D1525 ⁶
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	6.6E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	6.7E-5	cm/cm/°C	ASTM E831
Extrusion	Nominal Value	Unit	

Drying Temperature	76.7 - 87.8	°C
Drying Time	2.0 - 4.0	hr
Cylinder Zone 1 Temp.	166	°C
Cylinder Zone 2 Temp.	171	°C
Cylinder Zone 3 Temp.	177	°C
Cylinder Zone 4 Temp.	182	°C
Melt Temperature	182 - 199	°C

Extrusion instructions

Minimum Moisture Content: .04%Roll Stack Temperature - Bottom: 177 - 182°CRoll Stack Temperature - Middle: 177 - 182°CRoll Stack Temperature - Top: 177 - 182°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
6. 标准 B (120°C/h), 载荷2 (50N)

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