

LEXAN™ LUX1832 resin

Polycarbonate

SABIC Innovative Plastics

Message:

MFR=3.0; Branched extrusion grade for LED applications, UV stabilized; available in diffuse colors

General Information			
Additive	UV Stabilizer		
Features	Branched Polymer Structure		
Uses	LEDs		
Appearance	Colors Available		
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)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.60 to 0.90	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2230	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	62.0	MPa	
Break	60.0	MPa	
Tensile Elongation ³			ASTM D638
Yield	7.0	%	
Break	94	%	
Flexural Modulus ⁴ (50.0 mm Span)	2370	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	101	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	130	J/m	
23°C	810	J/m	
Instrumented Dart Impact (23°C, Energy at Peak Load)	64.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	141	°C	
1.8 MPa, Unannealed, 6.40 mm	127	°C	
Vicat Softening Temperature	145	°C	ASTM D1525 ⁶
CLTE			ASTM E831
Flow : -40 to 40°C	6.6E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.7E-5	cm/cm/°C	

Extrusion	Nominal Value	Unit
Drying Temperature	76.7 to 87.8	°C
Drying Time	2.0 to 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 to 199	°C

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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