

LEXAN™ LUX7169 resin

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LEXAN LUX7169 Polycarbonate resin is an injection moldable grade. It contains non-brominated, non-chlorinated flame retardant systems with UL-94 V0 rating. Designed for high light reflectance and light shielding applications with good UV weathering capability.

General Information			
Additive	Flame Retardant		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good UV Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	22	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	22.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	0.35	%	
Equilibrium, 23°C, 50% RH	0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2800	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	60.0	MPa	
Break	45.0	MPa	
Tensile Elongation ³ (Break)	11	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	2600	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	85.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	90	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	134	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁶	130	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 6.40 mm	124	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁷	115	°C	ISO 75-2/Af
1.8 MPa, Annealed, 3.20 mm	115	°C	ASTM D648

Vicat Softening Temperature			
--	142	°C	ASTM D1525 ⁸
--	143	°C	ISO 306/B120
Ball Pressure Test ⁹ (135°C)	Pass		IEC 60695-10-2
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	7.5E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.5E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (0.900 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	48	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 60	%	
Rear Temperature	249 to 271	°C	
Middle Temperature	260 to 282	°C	
Front Temperature	271 to 293	°C	
Nozzle Temperature	266 to 288	°C	
Processing (Melt) Temp	271 to 293	°C	
Mold Temperature	71.1 to 93.3	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.025 to 0.076	mm	
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.	80*10*4 mm		
7.	80*10*4 mm		
8.	Rate B (120°C/h), Loading 2 (50 N)		
9.	Approximate maximum		

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