

LEXAN™ LUX7189 resin

Polycarbonate
SABIC Innovative Plastics

Message:

Lexan® LUX7189 is an injection moldable, high light reflectance FR grade. Contains non-brominated, non-chlorinated flame retardant systems, UV stabilized.

General Information			
UL YellowCard	E121562-101387318	E121562-102064211	
Additive	Flame Retardant		
	UV Stabilizer		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good UV Resistance		
	High Reflectivity		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	22	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	2700	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	60.0	MPa	
Break	52.0	MPa	
Tensile Elongation ³			ASTM D638
Yield	6.0	%	
Break	110	%	
Flexural Modulus ⁴ (50.0 mm Span)	2700	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	100	J/m	
23°C	150	J/m	
Unnotched Izod Impact (23°C)	2100	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Energy at Peak Load)	59.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	135	°C	
1.8 MPa, Unannealed, 3.20 mm	125	°C	
Vicat Softening Temperature	140	°C	ASTM D1525 ⁶
CLTE			ASTM E831
Flow : -40 to 40°C	6.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.5E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-0		
2.50 mm	5VB		
3.00 mm	5VA		
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.	Rate B (120°C/h), Loading 2 (50 N)		

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