

# 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			
Additive	UV stabilizer Flame retardancy		
Features	Chlorine Free High reflectivity Good UV resistance Bromine-free Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm <sup>3</sup>	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 - 0.70	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	2700	MPa	ASTM D638
Tensile Strength <sup>2</sup>			ASTM D638
Yield	60.0	MPa	ASTM D638
Fracture	52.0	MPa	ASTM D638
Tensile Elongation <sup>3</sup>			ASTM D638
Yield	6.0	%	ASTM D638
Fracture	110	%	ASTM D638
Flexural Modulus <sup>4</sup> (50.0 mm Span)	2700	MPa	ASTM D790
Flexural Strength <sup>5</sup> (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	ASTM D256
23°C	150	J/m	ASTM D256
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, 3.20mm	135	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	125	°C	ASTM D648
Vicat Softening Temperature	140	°C	ASTM D1525 <sup>6</sup>
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	6.0E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	6.5E-5	cm/cm/°C	ASTM E831

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.50 mm	V-0	UL 94
2.50 mm	5VB	UL 94
3.00 mm	5VA	UL 94

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	3.0 - 4.0	hr
Drying Time, Maximum	48	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 - 60	%
Rear Temperature	249 - 271	°C
Middle Temperature	260 - 282	°C
Front Temperature	271 - 293	°C
Nozzle Temperature	266 - 288	°C
Processing (Melt) Temp	271 - 293	°C
Mold Temperature	71.1 - 93.3	°C
Back Pressure	0.345 - 0.689	MPa
Screw Speed	40 - 70	rpm
Vent Depth	0.025 - 0.076	mm

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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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
 Phone: +86 13424755533  
 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

