

LEXAN™ LUX9610 resin

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LUX9610 is a UV stabilized flame retardant transparent PC featuring non brominated and non chlorinated FR system with good flow and thin wall FR performance providing good color stability under heat exposure. Developed for lightguide and LED applications. It meets WEEE/RoHS requirements for various applications.

General Information			
Additive	UV stabilizer		
	Flame retardancy		
Features	Chlorine Free		
	Good UV resistance		
	Good liquidity		
	Good color stability		
	Bromine-free		
	Flame retardancy		
Uses	LEDs		
	Lighting Applications		
Appearance	Clear/transparent		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.20	g/cm ³	ASTM D792
--	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	6.3	g/10 min	ASTM D1238
Molding Shrinkage - Flow ¹	0.60 - 0.80	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	2320	MPa	ASTM D638
Tensile Strength ³			ASTM D638
Yield	64.0	MPa	ASTM D638
Fracture	62.0	MPa	ASTM D638
Tensile Elongation ⁴			ASTM D638
Yield	6.0	%	ASTM D638
Fracture	110	%	ASTM D638
Flexural Modulus ⁵ (50.0 mm Span)	2330	MPa	ASTM D790
Flexural Strength ⁶ (Yield, 50.0 mm Span)	101	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
-30°C	120	J/m	ASTM D256
23°C	800	J/m	ASTM D256
Unnotched Izod Impact (23°C)	2100	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Energy at Peak Load)	75.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm	142	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	138	°C	ASTM D648
Vicat Softening Temperature	146	°C	ISO 306/B120
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 95°C	6.8E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 95°C	6.8E-5	cm/cm/°C	ASTM E831
RTI Elec	125	°C	UL 746
RTI Imp	115	°C	UL 746
RTI	125	°C	UL 746
Electrical	Nominal Value		Test Method
Comparative Tracking Index (CTI)	PLC 3		UL 746
High Amp Arc Ignition (HAI)	PLC 1		UL 746
Hot-wire Ignition (HWI)	PLC 3		UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		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	260 - 282	°C	
Middle Temperature	271 - 293	°C	
Front Temperature	282 - 304	°C	
Nozzle Temperature	277 - 299	°C	
Processing (Melt) Temp	282 - 304	°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.	Tensile Bar		
2.	50 mm/min		
3.	Type 1, 50mm/min		

4.	Type 1, 50mm/min
5.	1.3 mm/min
6.	1.3 mm/min

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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

