

LEXAN™ LUX2614G resin

Polycarbonate

SABIC Innovative Plastics Europe

Message:

7.0 MFR. Improved flame retardance. UV stabilized for outdoor and lighting. Internal mold release.

General Information			
UL YellowCard	E207780-101327723		
Additive	UV stabilizer		
Features	Good UV resistance		
	Good demoulding performance		
	Flame retardancy		
Uses	Lighting Applications		
	Outdoor application		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.20	g/cm ³	ASTM D792
--	1.19	g/cm ³	ASTM D792
Specific Volume	0.830	cm ³ /g	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.0	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	7.00	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.70	%	Internal method
Water Absorption			ASTM D570
24 hr	0.15	%	ASTM D570
Equilibrium, 23°C	0.35	%	ASTM D570
Equilibrium, 100°C	0.58	%	ASTM D570
Outdoor Suitability	f2		UL 746C
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
Class m	70		ASTM D785
Class r	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	62.1	MPa	ASTM D638
Yield	63.0	MPa	ISO 527-2/50

Fracture ²	65.5	MPa	ASTM D638
Fracture	63.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ³	7.0	%	ASTM D638
Yield	6.0	%	ISO 527-2/50
Fracture ⁴	110	%	ASTM D638
Flexural Modulus			
50.0mm span ⁵	2340	MPa	ASTM D790
-- ⁶	2300	MPa	ISO 178
Flexural Stress			
--	94.0	MPa	ISO 178
Yield, 50.0mm span ⁷	93.1	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	10.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	750	J/m	ASTM D256
Unnotched Izod Impact (23°C)	3200	J/m	ASTM D4812
Dart Drop Impact (23°C)	169	J	ASTM D3029
Tensile Impact Strength ⁸	546	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	138	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	132	°C	ASTM D648
Vicat Softening Temperature			
--	154	°C	ASTM D1525 ⁹
--	145	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
CLTE - Flow (-40 to 95°C)	6.8E-5	cm/cm/°C	ASTM E831
Specific Heat	1260	J/kg/°C	ASTM C351
Thermal Conductivity	0.29	W/m/K	ASTM C177
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI	80.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+17	ohms · cm	ASTM D257
Dielectric Strength (3.20 mm, in Air)	15	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
50 Hz	3.17		ASTM D150
60 Hz	3.17		ASTM D150
1 MHz	2.96		ASTM D150
Dissipation Factor			ASTM D150
50 Hz	9.0E-4		ASTM D150

60 Hz	9.0E-4		ASTM D150
1 MHz	0.010		ASTM D150
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	Unit	Test Method
Flame Rating (0.750 to 1.65 mm)	V-2		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	750	°C	IEC 60695-2-12
1.50 mm	850	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm ¹⁰	875	°C	IEC 60695-2-13
1.50 mm	850	°C	IEC 60695-2-13
Optical	Nominal Value		Test Method
Refractive Index	1.586		ASTM D542
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	288 - 310	°C	
Middle Temperature	299 - 321	°C	
Front Temperature	310 - 332	°C	
Nozzle Temperature	304 - 327	°C	
Processing (Melt) Temp	310 - 332	°C	
Mold Temperature	82.2 - 116	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	40 - 70	rpm	
Vent Depth	0.025 - 0.076	mm	
NOTE			
1.	Type 1, 50mm/min		
2.	Type 1, 50mm/min		
3.	Type 1, 50mm/min		
4.	Type 1, 50mm/min		
5.	1.3 mm/min		
6.	2.0 mm/min		
7.	1.3 mm/min		
8.	Type S		
9.	标准 B (120°C/h), 载荷2 (50N)		
10.	by VDE		

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