

LEXAN™ LS2 resin

Polycarbonate
SABIC Innovative Plastics

Message:
UL rated HB as of 10/97. 200 series recommended when V-2 rating required. Automotive lens applications. Medium viscosity. UV-stabilized. Transparent colors only.

General Information			
UL YellowCard	E121562-220970		
Additive	UV Stabilizer		
Features	Medium Viscosity		
Uses	Automotive Applications		
	Lenses		
Appearance	Clear/Transparent		
	Colors Available		
Processing Method	Injection Molding		
Multi-Point Data	Coefficient of Thermal Expansion vs. Temperature (ASTM E831)		
	Elastic Modulus vs Temperature (ASTM D4065)		
	Flexural DMA (ASTM D4065)		
	Pressure-Volume-Temperature (PVT - Zoller Method)		
	Shear DMA (ASTM D4065)		
	Specific Heat vs. Temperature (ASTM D3417)		
	Tensile Creep (ASTM D2990)		
	Tensile Fatigue		
	Tensile Stress vs. Strain (ASTM D638)		
	Thermal Conductivity vs. Temperature (ASTM E1530)		
Physical	Viscosity vs. Shear Rate (ASTM D3835)		
	Nominal Value	Unit	Test Method
	Specific Gravity	1.20	g/cm ³ ASTM D792
	Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	11	g/10 min ASTM D1238
	Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	% Internal Method
	Water Absorption (24 hr)	0.15	% ASTM D570
Mechanical	Outdoor Suitability	f1	UL 746C
	Nominal Value	Unit	Test Method
	Tensile Strength ¹ (Yield)	62.1	MPa ASTM D638
	Tensile Elongation ² (Break)	130	% ASTM D638
	Flexural Modulus ³ (50.0 mm Span)	2340	MPa ASTM D790

Flexural Strength ⁴ (Yield, 50.0 mm Span)	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	800	J/m	ASTM D256
Instrumented Dart Impact (23°C, Energy at Peak Load)	63.8	J	ASTM D3763
Gardner Impact (23°C)	169	J	Internal Method
Tensile Impact Strength ⁵	578	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	132	°C	ASTM D648
RTI Elec	100	°C	UL 746
RTI Imp	100	°C	UL 746
RTI Str	100	°C	UL 746
Electrical	Nominal Value		Test Method
Comparative Tracking Index (CTI)	PLC 2		UL 746
High Amp Arc Ignition (HAI)	PLC 1		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 2		UL 746
Hot-wire Ignition (HWI)	PLC 4		UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.47 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (2540 µm)	88.0	%	ASTM D1003
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	271 to 293	°C	
Middle Temperature	282 to 304	°C	
Front Temperature	293 to 316	°C	
Nozzle Temperature	288 to 310	°C	
Processing (Melt) Temp	293 to 316	°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.	Type I, 50 mm/min		
2.	Type I, 50 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	Type S		

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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

