LEXAN™ EXL9330S resin

Polycarbonate

SABIC Innovative Plastics Europe

Message:

Opaque PC-Siloxane copolymer with excellent processability. UV stabilized. UL rated V-0/5VA/CTI-PLC-2. Available in limited colors; please contact your SABIC IP representative

General Information			
Additive	UV Stabilizer		
Features	Copolymer Good Processability		
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available Opaque		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.24	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	8.0	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	7.00	cm³/10min	ISO 1133
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.40 to 0.80	%	
Across Flow : 3.20 mm	0.40 to 0.80	%	
Water Absorption			ISO 62
Saturation, 23°C	0.12	%	
Equilibrium, 23°C, 50% RH	0.050	%	
Outdoor Suitability	f1		UL 746C
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2150	MPa	ASTM D638
--	2150	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	59.0	MPa	ASTM D638
Yield	59.0	MPa	ISO 527-2/50
Break [3]	58.0	MPa	ASTM D638
Break	58.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield [4]	6.0	%	ASTM D638
Yield	6.0	%	ISO 527-2/50

Break [5]	100	%	ASTM D638
Break	100	%	ISO 527-2/50
Flexural Modulus			
50.0 mm Span [6]	2150	MPa	ASTM D790
-- [7]	2150	MPa	ISO 178
Flexural Stress			
--	86.0	MPa	ISO 178
Yield, 50.0 mm Span [8]	86.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [9]			ISO 179/1eA
-30°C	50	kJ/m²	
23°C	70	kJ/m²	
Charpy Unnotched Impact Strength [10]			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact			
-50°C	450	J/m	ASTM D256
-30°C	550	J/m	ASTM D256
23°C	700	J/m	ASTM D256
-30°C [11]	50	kJ/m²	ISO 180/1A
23°C [12]	75	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength [13]			ISO 180/1U
-30°C	No Break		
23°C	No Break		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	139	°C	ASTM D648
0.45 MPa, Unannealed, 100 mm Span [14]	139	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 3.20 mm	126	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [15]	126	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	147	°C	ASTM D1525, ISO 306/B120 12 [16]
--	145	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
RTI Elec	125	°C	UL 746
RTI Imp	110	°C	UL 746
RTI Str	125	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Comparative Tracking Index (CTI)	PLC 2		UL 746
Comparative Tracking Index	250	V	IEC 60112
High Amp Arc Ignition (HAI)	PLC 0		UL 746

Hot-wire Ignition (HWI)	PLC 2		UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.800 mm	V-0		
2.00 mm	5VB		
2.50 mm	5VA		
Glow Wire Flammability Index (1.90 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	900	°C	IEC 60695-2-13
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	217 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	71.0 to 93.0	°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.	Type I, 50 mm/min		
5.	Type I, 50 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*3 sp=62mm		
10.	80*10*3 sp=62mm		
11.	80*10*3		
12.	80*10*3		
13.	80*10*3		
14.	120*10*4 mm		
15.	80*10*4 mm		
16.	Rate B (120°C/h), Loading 2 (50 N)		

infringement occurs, please contact us immediately.

Recommended distributors for this material

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