LEXAN™ SLX9271T resin

Polycarbonate

SABIC Innovative Plastics

Message:

LEXAN SLX9271T resin is a halogen-free flame retardant polycarbonate copolymer resin with UL-94 V0 rating at 3.0 mm, enhanced UV stabilization and added release agent for injection molding applications. The resin is available in transparent and limited opaque colors.

General Information			
Additive	demoulding UV stabilizer		
Features	Copolymer Good UV resistance Good demoulding performance Halogen-free Flame retardancy		
RoHS Compliance	RoHS compliance		
Appearance	Opacity Clear/transparent		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.20	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	16.0	cm³/10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.70	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.35	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Outdoor Suitability	f2		UL 746C
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2400	MPa	ASTM D638
--	2300	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	65.0	MPa	ASTM D638
Yield	67.0	MPa	ISO 527-2/50
Fracture [3]	67.0	MPa	ASTM D638
Fracture	70.0	MPa	ISO 527-2/50

Tensile Elongation			
Yield [4]	6.0	%	ASTM D638
Yield	6.0	%	ISO 527-2/50
Fracture [5]	> 100	%	ASTM D638
Fracture	> 100	%	ISO 527-2/50
Flexural Modulus			
50.0mm span [6]	2450	MPa	ASTM D790
-- [7]	2450	MPa	ISO 178
Flexural Stress			
--	96.0	MPa	ISO 178
Yield, 50.0mm span [8]	96.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [9]			ISO 179/1eA
-30°C	15	kJ/m²	ISO 179/1eA
23°C	65	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength [10] (23°C)	No Break		ISO 179/1eU
Notched Izod Impact			
-30°C	130	J/m	ASTM D256
23°C	780	J/m	ASTM D256
-30°C [11]	10	kJ/m²	ISO 180/1A
23°C [12]	65	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength [13] (23°C)	No Break		ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	80.0	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	124	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [14]	124	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	139	°C	ASTM D1525, ISO 306/B50 10 [15]
--	140	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831, ISO 11359-2
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI	80.0	°C	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.00 mm)	V-0		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12

Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	875	°C	IEC 60695-2-13
1.50 mm	850	°C	IEC 60695-2-13
3.00 mm	850	°C	IEC 60695-2-13

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	0.020	%
Hopper Temperature	60.0 - 80.0	°C
Rear Temperature	260 - 280	°C
Middle Temperature	270 - 290	°C
Front Temperature	280 - 310	°C
Nozzle Temperature	270 - 290	°C
Processing (Melt) Temp	280 - 310	°C
Mold Temperature	80.0 - 110	°C

NOTE	
1.	5.0 mm/min
2.	Type 1, 50mm/min
3.	Type 1, 50mm/min
4.	Type 1, 50mm/min
5.	Type 1, 50mm/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.	80*10*4 mm
15.	标准 B (120°C/h), 载荷2 (50N)

Recommended distributors for this material

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