

LEXAN™ SLX2432T resin

Polycarbonate
SABIC Innovative Plastics

Message:
Medium viscosity PC copolymer with enhanced UV stabilization and added release agent. V2 rated. Available in transparent and tinted colors.

General Information			
UL YellowCard	E207780-531867		
Additive	demoulding		
Features	Copolymer		
	Good UV resistance		
	Medium viscosity		
Appearance	Clear/transparent		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	9.00	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.70	%	Internal method
Water Absorption			
24 hr	0.12	%	ASTM D570
Saturated, 23°C	0.25	%	ISO 62
Equilibrium, 23°C, 50% RH	0.17	%	ISO 62
Outdoor Suitability	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2550	MPa	ASTM D638
--	2550	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	67.0	MPa	ASTM D638
Yield	65.0	MPa	ISO 527-2/50
Fracture ³	72.0	MPa	ASTM D638
Fracture	69.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	6.0	%	ASTM D638
Yield	6.0	%	ISO 527-2/50
Fracture ⁵	110	%	ASTM D638
Fracture	110	%	ISO 527-2/50

Flexural Modulus			
50.0mm span ⁶	2500	MPa	ASTM D790
-- ⁷	2500	MPa	ISO 178
Flexural Stress			
--	105	MPa	ISO 178
Yield, 50.0mm span ⁸	105	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹			ISO 179/1eA
-30°C	15	kJ/m ²	ISO 179/1eA
23°C	30	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ¹⁰ (23°C)	No Break		ISO 179/1eU
Notched Izod Impact			
-30°C	98	J/m	ASTM D256
23°C	700	J/m	ASTM D256
-30°C ¹¹	10	kJ/m ²	ISO 180/1A
23°C ¹²	25	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	2600	J/m	ASTM D4812
23°C ¹³	No Break		ISO 180/1U
Instrumented Dart Impact			ASTM D3763
-40°C, Total Energy	85.0	J	ASTM D3763
23°C, Total Energy	77.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	130	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ¹⁴	130	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	118	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹⁵	116	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	135	°C	ASTM D1525, ISO 306/B50 ¹¹ ¹⁶
--	137	°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	6.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	6.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-2		UL 94
Glow Wire Flammability Index (1.60 mm)	960	°C	IEC 60695-2-12
Oxygen Index	38	%	ISO 4589-2
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.590		ASTM D542

Transmittance (2540 μm)	84.0	%	ASTM D1003
Haze (2540 μm)	0.80	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	120	°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	255 - 280	°C	
Middle Temperature	265 - 290	°C	
Front Temperature	280 - 300	°C	
Nozzle Temperature	275 - 295	°C	
Processing (Melt) Temp	280 - 300	°C	
Mold Temperature	70.0 - 95.0	°C	
Back Pressure	0.300 - 0.700	MPa	
Screw Speed	40 - 70	rpm	
Vent Depth	0.025 - 0.076	mm	

NOTE		
1.	50 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.	80*10*4 mm	
16.	标准 B (120°C/h), 载荷2 (50N)	

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