

LEXAN™ SLX2471T resin

Polycarbonate

SABIC Innovative Plastics Europe

Message:

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

General Information			
Additive	demoulding		
Features	Copolymer		
	Good UV resistance		
	Good demoulding performance		
	Medium viscosity		
Appearance	Available colors		
	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			ISO 62
Saturated, 23°C	0.35	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Outdoor Suitability	f1		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	65.0	MPa	ISO 527-2/50
Fracture ³	73.0	MPa	ASTM D638
Fracture	70.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	6.4	%	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			
--	100	MPa	ISO 178
Yield, 50.0mm span ⁸	100	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	65	kJ/m ²	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	820	J/m	ASTM D256
-30°C ¹¹	10	kJ/m ²	ISO 180/1A
23°C ¹²	65	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ¹³ (23°C)	No Break		ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	85.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	126	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹⁴	125	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	140	°C	ASTM D1525, ISO 306/B50 ¹⁵
--	141	°C	ISO 306/B120
Ball Pressure Test			IEC 60695-10-2
75°C	Pass		IEC 60695-10-2
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
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-2		UL 94
Glow Wire Flammability Index (1.50 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	825	°C	IEC 60695-2-13
2.00 mm	825	°C	IEC 60695-2-13
2.50 mm	825	°C	IEC 60695-2-13
3.00 mm	825	°C	IEC 60695-2-13

Optical	Nominal Value	Unit	Test Method
Refractive Index	1.590		ISO 489
Transmittance (2540 μm)	89.0	%	ASTM D1003
Haze (2540 μm)	0.20	%	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.	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)		

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