

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			
UL YellowCard	E45329-600333		
Additive	Mold Release		
	UV Stabilizer		
Features	Copolymer		
	Medium Viscosity		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
	Colors Available		
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 to 0.70	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	0.35	%	
Equilibrium, 23°C, 50% RH	0.15	%	
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
Break ³	73.0	MPa	ASTM D638
Break	70.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	6.4	%	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	2450	MPa	ASTM D790
-- ⁷	2450	MPa	ISO 178
Flexural Stress			
--	100	MPa	ISO 178
Yield, 50.0 mm 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	
23°C	65	kJ/m ²	
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, 3.20 mm	126	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm 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		
125°C	Pass		
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	7.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.0E-5	cm/cm/°C	
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	
2.00 mm	825	°C	

2.50 mm	825	°C	
3.00 mm	825	°C	
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 to 4.0	hr	
Drying Time, Maximum	48	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 60	%	
Rear Temperature	255 to 280	°C	
Middle Temperature	265 to 290	°C	
Front Temperature	280 to 300	°C	
Nozzle Temperature	275 to 295	°C	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	70.0 to 95.0	°C	
Back Pressure	0.300 to 0.700	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.025 to 0.076	mm	
NOTE			
1.	5.0 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.	80*10*4 mm		
15.	Rate B (120°C/h), Loading 2 (50 N)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

