

LEXAN™ SLX2071T resin

Polycarbonate
SABIC Innovative Plastics Europe

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

General Information			
Additive	Mold Release		
	UV Stabilizer		
Features	Copolymer		
	High Viscosity		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
	Colors Available		
Processing Method	Profile Extrusion		
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)	6.0	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	5.50	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	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2340	MPa	ASTM D638
--	2340	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	67.0	MPa	ASTM D638
Yield	67.0	MPa	ISO 527-2/50
Break ³	76.0	MPa	ASTM D638
Break	76.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	6.3	%	ASTM D638
Yield	6.3	%	ISO 527-2/50
Break ⁵	> 100	%	ASTM D638

Break	> 100	%	ISO 527-2/50
Flexural Modulus			
50.0 mm Span ⁶	2120	MPa	ASTM D790
-- ⁷	2120	MPa	ISO 178
Flexural Stress			
--	96.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	96.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	140	J/m	
23°C	820	J/m	
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	134	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	121	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	135	°C	ASTM D1525 ¹⁰
--	137	°C	ISO 306/B50
--	139	°C	ISO 306/B120
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	
Optical	Nominal Value	Unit	Test Method
Transmittance (2540 µm)	89.0	%	ASTM D1003
Haze (2540 µm)	0.50	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Drying Temperature	105	°C	
Drying Time	2.0 to 3.0	hr	
Hopper Temperature	60.0 to 80.0	°C	
Cylinder Zone 1 Temp.	240 to 280	°C	
Cylinder Zone 2 Temp.	240 to 280	°C	
Cylinder Zone 3 Temp.	220 to 240	°C	
Cylinder Zone 4 Temp.	220 to 240	°C	
Adapter Temperature	220 to 240	°C	
Melt Temperature	220 to 250	°C	
Die Temperature	245 to 290	°C	
Calibration Temp, First	60.0 to 100	°C	
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*4 mm
10.	Rate B (120°C/h), Loading 2 (50 N)

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