LEXAN™ SLX1432 resin

Polycarbonate

SABIC Innovative Plastics

Message:

Medium viscosity PC copolymer with enhanced UV stabilization and added release agent. Available in opaque colors. Typical minimum color tolerance limit is DE CMC < 1.0

General Information			
Additive	demoulding		
Features	Copolymer Good UV resistance Medium viscosity		
Appearance	Opacity		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.22	g/cm³	ASTM D792
--	1.23	g/cm³	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	cm³/10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.60 - 0.80	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.30	%	ISO 62
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2520	MPa	ASTM D638
--	2590	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	65.6	MPa	ASTM D638
Yield	65.4	MPa	ISO 527-2/50
Fracture [3]	72.6	MPa	ASTM D638
Fracture	71.3	MPa	ISO 527-2/50
Tensile Elongation			
Yield [4]	6.1	%	ASTM D638
Yield	5.8	%	ISO 527-2/50
Fracture [5]	130	%	ASTM D638
Fracture	120	%	ISO 527-2/50
Flexural Modulus			

50.0mm span [6]	2490	MPa	ASTM D790
-- [7]	2390	MPa	ISO 178
Flexural Stress			
--	99.8	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/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	120	J/m	ASTM D256
23°C	860	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)	76.0	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	132	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	120	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [14]	118	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	137	°C	ASTM D1525, ISO 306/B50 10 [15]
--	140	°C	ISO 306/B120
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	6.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	6.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121	°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	271 - 293	°C	
Middle Temperature	282 - 304	°C	
Front Temperature	293 - 316	°C	
Nozzle Temperature	288 - 310	°C	
Processing (Melt) Temp	293 - 316	°C	
Mold Temperature	71.1 - 93.3	°C	

Back Pressure	0.345 - 0.689	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)

Recommended distributors for this material

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