LEXAN™ LUX2289 resin

Polycarbonate

SABIC Innovative Plastics

Message:

LEXAN LUX2289 resin is an injection molding grade with high light reflectance and UV stabilized

General Information			
UL YellowCard	E45329-101527188		
Additive	UV stabilizer		
Features	Good UV resistance		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.34	g/cm³	ASTM D792
--	1.31	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	17	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	16.0	cm³/10min	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
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			
Yield [1]	60.0	MPa	ASTM D638
Yield	61.0	MPa	ISO 527-2/50
Fracture [2]	61.0	MPa	ASTM D638
Fracture	62.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield [3]	6.0	%	ASTM D638
Yield	6.0	%	ISO 527-2/50
Fracture [4]	120	%	ASTM D638
Flexural Modulus			
50.0mm span [5]	2670	MPa	ASTM D790
--	2500	MPa	ISO 178
Flexural Stress			
--	70.0	MPa	ISO 178
Yield, 50.0mm span [6]	98.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength [7]			ISO 179/1eA
-30°C	180	kJ/m²	ISO 179/1eA
23°C	180	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength [8]			ISO 179/1eU
-30°C	140	kJ/m²	ISO 179/1eU
23°C	140	kJ/m²	ISO 179/1eU
Notched Izod Impact			
-30°C	170	J/m	ASTM D256
23°C	650	J/m	ASTM D256
-30°C [9]	13	kJ/m²	ISO 180/1A
23°C [10]	52	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	170	J/m	ASTM D4812
-30°C [11]	160	kJ/m²	ISO 180/1U
23°C [12]	170	kJ/m²	ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	69.0	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	136	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	124	°C	ASTM D648
1.8 MPa, annealed [13]	123	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	142	°C	ASTM D1525 [14]
--	144	°C	ISO 306/A50
--	145	°C	ISO 306/B50
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	6.0E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	6.3E-5	cm/cm/°C	ASTM E831
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.00 mm	HB		UL 94
1.50 mm	V-2		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	850	°C	IEC 60695-2-13
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	260 - 282	°C	

Middle Temperature	271 - 293	°C
Front Temperature	282 - 304	°C
Nozzle Temperature	277 - 299	°C
Processing (Melt) Temp	282 - 304	°C
Mold Temperature	71.0 - 93.0	°C
Back Pressure	0.345 - 0.689	MPa
Screw Speed	40 - 70	rpm
Vent Depth	0.025 - 0.076	mm

NOTE	
1.	Type 1, 50mm/min
2.	Type 1, 50mm/min
3.	Type 1, 50mm/min
4.	Type 1, 50mm/min
5.	1.3 mm/min
6.	1.3 mm/min
7.	80*10*3 sp=62mm
8.	80*10*3 sp=62mm
9.	80*10*3
10.	80*10*3
11.	80*10*3
12.	80*10*4
13.	2 hr, 120°C
14.	标准 B (120°C/h), 载荷2 (50N)

Recommended distributors for this material

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