

LNP™ THERMOCOMP™ Lexan_BFL2200

compound

Polycarbonate

SABIC Innovative Plastics Europe

Message:

design for black light frame application as high flow PC, V-2, high reflection grade.

General Information			
Features	High Flow		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	36	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	36.0	cm³/10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.74 to 0.76	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	0.20	%	
Equilibrium, 23°C, 50% RH	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2600	MPa	ASTM D638
--	2.54	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	55.0	MPa	ASTM D638
Yield	55.6	MPa	ISO 527-2/5
Break ³	50.2	MPa	ASTM D638
Break	47.9	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.4	%	ASTM D638
Yield	5.4	%	ISO 527-2/5
Break ⁵	59	%	ASTM D638
Break	48	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2220	MPa	ASTM D790
-- ⁷	2.34	MPa	ISO 178
Flexural Stress			
--	90.2	MPa	ISO 178
Yield, 50.0 mm Span ⁸	84.4	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	35	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-30°C	160	J/m	ASTM D256
23°C	550	J/m	ASTM D256
-30°C ¹⁰	16	kJ/m ²	ISO 180/1A
23°C ¹¹	30	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	125	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	172	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	144	°C	ASTM D1525, ISO 306/B50 ¹³
--	147	°C	ISO 306/B120
CLTE			
Flow : -40 to 40°C	6.8E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	6.1E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	6.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*4 sp=62mm		
10.	80*10*4		
11.	80*10*4		
12.	80*10*4 mm		
13.	Rate B (120°C/h), Loading 2 (50 N)		

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