

LNP™ LUBRICOMP™ Lexan_WR2210

compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LNP LUBRICOMP LEXAN_WR2210 compound is based on an alternative polymeric wear technology and does not contain silicones. LEXAN WR2210 has superior processability (flow similar to LEXAN 121) and part appearance.

General Information			
Features	Workability, good		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792, ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	15.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.50 - 0.70	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	103	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	2000	MPa	ASTM D638
Tensile Strength ³			ASTM D638
Yield	55.0	MPa	ASTM D638
Fracture	60.0	MPa	ASTM D638
Tensile Elongation ⁴			ASTM D638
Yield	6.0	%	ASTM D638
Fracture	100	%	ASTM D638
Flexural Modulus			
100mm span ⁵	2200	MPa	ASTM D790
-- ⁶	2200	MPa	ISO 178
Flexural Strength ⁷ (Yield, 100 mm Span)	85.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	35	kJ/m ²	ISO 179/2C
Notched Izod Impact			
-20°C	150	J/m	ASTM D256
23°C	600	J/m	ASTM D256
-30°C ⁸	20	kJ/m ²	ISO 180/1A
23°C ⁹	45	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature			
--	150	°C	ASTM D1525 ¹⁰
--	142	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
CLTE - Flow (23 to 80°C)	7.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.20	W/m/K	ISO 8302
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm, Testing by SABIC)	HB		UL 94
Oxygen Index	27	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 - 80.0	°C	
Rear Temperature	260 - 280	°C	
Middle Temperature	270 - 290	°C	
Front Temperature	280 - 300	°C	
Nozzle Temperature	270 - 290	°C	
Processing (Melt) Temp	280 - 300	°C	
Mold Temperature	80.0 - 100	°C	
NOTE			
1.	Tensile Bar		
2.	5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	Type 1, 5.0 mm/min		
5.	2.6 mm/min		
6.	2.0 mm/min		
7.	2.6 mm/min		
8.	80*10*4		
9.	80*10*4		
10.	标准 B (120°C/h), 载荷2 (50N)		

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