

LNP™ LUBRICOMP™ Lexan_WR5210R

compound

Polycarbonate
SABIC Innovative Plastics

Message:
LNP LUBRICOMP LEXAN_WR5210R compound is a wear resistant, 7% PTFE filled material.

General Information			
Additive	PTFE lubricant (7%)		
Features	Good wear resistance		
	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.60	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	53.8	MPa	ASTM D638
Fracture	55.2	MPa	ASTM D638
Tensile Elongation ² (Break)	75	%	ASTM D638
Flexural Modulus ³ (50.0 mm Span)	2030	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 50.0 mm Span)	83.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	180	J/m	ASTM D256
Instrumented Dart Impact (23°C, Energy at Peak Load)	38.9	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	127	°C	ASTM D648
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI	80.0	°C	UL 746
Electrical	Nominal Value		Test Method
Comparative Tracking Index (CTI)	PLC 3		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 2		UL 746
Hot-wire Ignition (HWI)	PLC 2		UL 746

Flammability	Nominal Value	Test Method
Flame Rating (1.50 mm)	HB	UL 94
Optical	Nominal Value	Test Method
Gardner Gloss (60°, Untextured)	52	ASTM D523
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.	Type 1, 50mm/min	
2.	Type 1, 50mm/min	
3.	1.3 mm/min	
4.	1.3 mm/min	

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