

SABIC Innovative Plastics LNP LUBRICOMP Lexan_WR2210 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* Lexan_WR2210 compound is an alternative polymeric wear additive technology. No silicones, superior processability/part appearance. Flow similar to LEXAN 121.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-LexanWR2210-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	18.2 g/10 min @Load 1.20 kg, Temperature 300 Å°C	18.2 g/10 min @Load 2.65 lb, Temperature 572 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	59.0 MPa	8560 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	94 %	94 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	88.0 MPa	12800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.39 GPa	347 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.56 J/cm	12.3 ft-lb/in	ASTM D256
Tensile Impact Strength	630 kJ/mÅ²	300 ft-lb/inÅ²	Type S; ASTM D1822
Dart Drop, Total Energy	56.0 J	41.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.21	0.21	steel; ASTM D1894
Coefficient of Friction, Static	0.17	0.17	steel; ASTM D1894
K (wear) Factor	171 x 10 ⁻⁸ mmÅ³/N-M	85.0 x 10 ⁻¹⁰ inÅ³- min/ft-lb-hr	PV=2000 psi-fpm vs Self; SABIC Method

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa	127 Å°C	261 Å°F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	Comments unannealed; ASTM D648
	127 Â°C	261 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	100 Â°C	212 Â°F	UL 746B
UL RTI, Mechanical with Impact	100 Â°C	212 Â°F	UL 746B
UL RTI, Mechanical without Impact	100 Â°C	212 Â°F	UL 746B
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.47 mm	@Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten; ASTM D495
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746A
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL 746A
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	25.4 - 80.0 mm/min	1.00 - 3.15 in/min	UL 746A

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