

LNP™ LUBRICOMP™ NXC620 compound

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* NXC620 is a compound based on Cycloxy* XCY620 containing Silicone. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound NXC620

Product reorder name: NXC620

General Information			
Additive	Silicone Lubricant		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.14	g/cm ³	
--	1.13	g/cm ³	
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.60 to 0.80	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Water Absorption (24 hr, 50% RH)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2190	MPa	ASTM D638
--	2100	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	51.0	MPa	ASTM D638
Yield	49.0	MPa	ISO 527-2/5
Break ³	40.0	MPa	ASTM D638
Break	42.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	4.7	%	ASTM D638
Yield	4.9	%	ISO 527-2/50
Break ⁵	31	%	ASTM D638
Break	50	%	ISO 527-2/50
Flexural Modulus			
50.0 mm Span ⁶	2220	MPa	ASTM D790
-- ⁷	2120	MPa	ISO 178
Flexural Stress			

--	77.0	MPa	ISO 178
Break, 50.0 mm Span ⁸	79.0	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.23		
vs. Itself - Static	0.18		
Wear Factor			ASTM D3702 Modified
Ring	7.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	1250	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/2C
-30°C	39	kJ/m ²	
23°C	51	kJ/m ²	
Notched Izod Impact			
23°C	650	J/m	ASTM D256
-40°C ⁹	28	kJ/m ²	ISO 180/1A
23°C ¹⁰	48	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	No Break		ASTM D4812, ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	125	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	108	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	110	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	7.3E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.8E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	95.0 to 105	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 to 80.0	°C	
Rear Temperature	230 to 260	°C	
Middle Temperature	250 to 290	°C	
Front Temperature	250 to 290	°C	
Nozzle Temperature	240 to 280	°C	
Processing (Melt) Temp	260 to 290	°C	
Mold Temperature	60.0 to 90.0	°C	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 50 mm/min		
5.	Type I, 50 mm/min		

6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

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