

LNP™ LUBRICOMP™ WFL369 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP WFL369 is a compound based on Polybutylene Terephthalate resin containing Glass Fiber, PTFE, Flame Retardant. Added features of this material include: Internally Lubricated, Flame Retardant.

Also known as: LNP* LUBRICOMP* Compound WFL-4036 FR-1

Product reorder name: WFL369

General Information			
UL YellowCard	E207780-101345254		
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Lubrication		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.78	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.40 - 0.60	%	ASTM D955
Transverse flow: 24 hours	1.4 - 1.6	%	ASTM D955
Vertical flow direction: 24 hours	1.5	%	ISO 294-4
Flow direction: 24 hours	0.51	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12400	MPa	ASTM D638
--	11200	MPa	ISO 527-2/1
Tensile Strength			
Yield	105	MPa	ASTM D638
Yield	106	MPa	ISO 527-2
Fracture	103	MPa	ASTM D638
Fracture	106	MPa	ISO 527-2
Tensile Elongation			
Yield	2.1	%	ASTM D638
Yield	2.0	%	ISO 527-2
Fracture	2.1	%	ASTM D638
Fracture	2.0	%	ISO 527-2
Flexural Modulus			
--	10300	MPa	ASTM D790
--	8900	MPa	ISO 178

Flexural Strength			
--	159	MPa	ASTM D790
--	161	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.53		ASTM D3702 Modified
With Self-Static	0.41		ASTM D3702 Modified
Wear Factor - Washer	25.2	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C ²	5.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	670	J/m	ASTM D4812
23°C ³	38	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.80	J	ASTM D3763
--	2.30	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	221	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	221	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	207	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	207	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	2.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	232 - 243	°C	
Middle Temperature	243 - 254	°C	
Front Temperature	249 - 260	°C	
Processing (Melt) Temp	243 - 260	°C	
Mold Temperature	82.2 - 98.9	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		

3.	80*10*4
4.	80*10*4 mm
5.	80*10*4 mm

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