

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	E121562-101345287		
Filler / Reinforcement	Glass Fiber		
Additive	Flame Retardant		
	PTFE Lubricant		
Features	Flame Retardant		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.78	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.40 to 0.60	%	ASTM D955
Across Flow : 24 hr	1.4 to 1.6	%	ASTM D955
Across Flow : 24 hr	1.5	%	ISO 294-4
Flow : 24 hr	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
Break	103	MPa	ASTM D638
Break	106	MPa	ISO 527-2
Tensile Elongation			
Yield	2.1	%	ASTM D638
Yield	2.0	%	ISO 527-2
Break	2.1	%	ASTM D638
Break	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
vs. Itself - Dynamic	0.53		
vs. Itself - Static	0.41		
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, 3.20 mm	221	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	221	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	207	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	207	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	7.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	2.9E-5	cm/cm/°C	
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 to 243	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	249 to 260	°C	
Processing (Melt) Temp	243 to 260	°C	
Mold Temperature	82.2 to 98.9	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 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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