

LNP™ LUBRICOMP™ WFL36 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* WFL36 is a compound based on Polybutylene Terephthalate resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound WFL-4036
Product reorder name: WFL36

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.50 - 1.0	%	ASTM D955
Vertical flow direction: 24 hours	0.50 - 1.0	%	ISO 294-4
Flow direction: 24 hours	0.10 - 0.30	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.040	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10300	MPa	ASTM D638
--	10600	MPa	ISO 527-2/1
Tensile Strength (Break)	118	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Fracture	2.3	%	ASTM D638
Fracture	2.2	%	ISO 527-2
Flexural Modulus			
--	10200	MPa	ASTM D790
--	10000	MPa	ISO 178
Flexural Strength			
--	193	MPa	ASTM D790
--	187	MPa	ISO 178
Coefficient of Friction			
With self-dynamics	0.57		ASTM D3702 Modified
With Self-Static	0.41		ASTM D3702 Modified

Wear Factor - Washer	42.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	96	J/m	ASTM D256
23°C ²	9.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	680	J/m	ASTM D4812
23°C ³	43	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	13.7	J	ASTM D3763
--	2.61	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	218	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	214	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	3.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	6.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 - 232	°C	
Middle Temperature	243 - 254	°C	
Front Temperature	260 - 271	°C	
Processing (Melt) Temp	238 - 266	°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		

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