

LNP™ LUBRICOMP™ WFP36 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* WFP36 is a compound based on Polybutylene Terephthalate resin containing Silicone, Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.

Also known as: LNP* LUBRICOMP* Compound WFL-4536

Product reorder name: WFP36

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE silicone lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	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)	0.40	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10300	MPa	ASTM D638
--	11800	MPa	ISO 527-2/1
Tensile Strength			
Fracture	113	MPa	ASTM D638
Fracture	118	MPa	ISO 527-2
Tensile Elongation			
Fracture	2.5	%	ASTM D638
Fracture	2.7	%	ISO 527-2
Flexural Modulus			
--	8740	MPa	ASTM D790
--	9360	MPa	ISO 178
Flexural Strength			
--	194	MPa	ASTM D790
--	189	MPa	ISO 178
Coefficient of Friction			
With self-dynamics	0.50		ASTM D3702 Modified
With Self-Static	0.42		ASTM D3702 Modified

Wear Factor - Washer	136	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	69	J/m	ASTM D256
23°C ²	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	580	J/m	ASTM D4812
23°C ³	47	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.51	J	ASTM D3763
--	14.1	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	214	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	213	°C	ISO 75-2/Af
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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