

LNP™ LUBRICOMP™ WFP36 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* WFP36 is a compound based on PBT resin containing 30% Glass Fiber, 15% PTFE/Silicone. Added features of this material include: Wear Resistant.

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

Product reorder name: WFP36

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.50 to 1.0	%	
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			
Break	113	MPa	ASTM D638
Break	118	MPa	ISO 527-2
Tensile Elongation			
Break	2.5	%	ASTM D638
Break	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			
vs. Itself - Dynamic	0.50		ASTM D3702 Modified
vs. Itself - Static	0.42		

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, 3.20 mm	214	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm 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 to 232	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	238 to 266	°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		

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