

LNP™ LUBRICOMP™ ZFG26 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP LUBRICOMP ZFG26 is a compound based on PPE+PS resin containing 30% Glass Fiber, 10% Graphite. Added features of this material include: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound ZFL-4326

Product reorder name: ZFG26

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Graphite Powder Lubricant (10%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.42	g/cm ³	ASTM D792
--	1.37	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.70	%	ASTM D955
Across Flow : 24 hr	0.73	%	ISO 294-4
Flow : 24 hr	0.36	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.060	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13100	MPa	ASTM D638
--	10500	MPa	ISO 527-2/1
Tensile Strength			
Yield	110	MPa	ASTM D638
Yield	109	MPa	ISO 527-2
Break	115	MPa	ASTM D638
Break	109	MPa	ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	1.5	%	
Break	1.5	%	
Flexural Modulus			
--	10500	MPa	ASTM D790
--	10000	MPa	ISO 178

Flexural Strength			
--	165	MPa	ASTM D790
--	163	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.62		
vs. Itself - Static	0.89		
Wear Factor - Washer	113	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	80	J/m	ASTM D256
23°C ²	8.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	380	J/m	ASTM D4812
23°C ³	29	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.30	J	ASTM D3763
--	3.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	140	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	141	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	135	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	135	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	4.7E-5	cm/cm/°C	
Transverse : -40 to 40°C	2.2E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	277 to 288	°C	
Middle Temperature	288 to 299	°C	
Front Temperature	299 to 310	°C	
Processing (Melt) Temp	299 to 304	°C	
Mold Temperature	82.2 to 110	°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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

