

LNP™ LUBRICOMP™ ZFG26 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP LUBRICOMP ZFG26 is a compound based on PPE+PS Blend resin containing Glass Fiber, Graphite Powder. Added features of this material include: Internally Lubricated.

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

Product reorder name: ZFG26

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	Graphite powder lubricant		
Features	Lubrication		
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 hours	0.20	%	ASTM D955
Transverse flow: 24 hours	0.70	%	ASTM D955
Vertical flow direction: 24 hours	0.73	%	ISO 294-4
Flow direction: 24 hours	0.36	%	ISO 294-4
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
Fracture	115	MPa	ASTM D638
Fracture	109	MPa	ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	1.5	%	ASTM D638, ISO 527-2
Fracture	1.5	%	ASTM D638, ISO 527-2
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

With self-dynamics	0.62		ASTM D3702 Modified
With Self-Static	0.89		ASTM D3702 Modified
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, 3.20mm	140	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	141	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	135	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	135	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	4.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	2.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
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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