

LNP™ LUBRICOMP™ HFG25Z compound

Polyamide 11

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* HFG25Z is a compound based on Nylon 11 resin containing 25% Glass Fiber, 10% Graphite. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound HFL-4325

Product reorder name: HFG25Z

General Information			
Filler / Reinforcement	Glass Fiber,25% 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	1.30	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.40 to 0.60	%	ASTM D955
Across Flow : 24 hr	0.80 to 1.0	%	ASTM D955
Across Flow : 24 hr	0.93	%	ISO 294-4
Flow : 24 hr	0.47	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11000	MPa	ASTM D638
--	6830	MPa	ISO 527-2/1
Tensile Strength			
Yield	152	MPa	ASTM D638
Yield	76.0	MPa	ISO 527-2
Break	152	MPa	ASTM D638
Break	76.0	MPa	ISO 527-2
Tensile Elongation			
Yield	2.7	%	ASTM D638
Yield	2.3	%	ISO 527-2
Break	2.7	%	ASTM D638
Break	2.4	%	ISO 527-2
Flexural Modulus			
--	5520	MPa	ASTM D790
--	18200	MPa	ISO 178

Flexural Strength			
--	96.5	MPa	ASTM D790
--	352	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.42		
vs. Itself - Static	0.46		
Wear Factor - Washer	58.0	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	7.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	450	J/m	ASTM D4812
23°C ³	29	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	15.1	J	ASTM D3763
--	3.30	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	182	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	182	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	171	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	166	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	9.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	3.4E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	3.5E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	199 to 210	°C	
Middle Temperature	232 to 243	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	227 to 260	°C	
Mold Temperature	43.3 to 54.4	°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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

