LNP™ LUBRICOMP™ UFL36AS compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP UFL36AS is a compound based on Polyphthalamide resin containing Glass Fiber, PTFE. Added features include Internally Lubricated, Heat Stabilized.
Also known as: LNP* LUBRICOMP* Compound UFL-4036 A HS
Product reorder name: UFL36AS

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant heat stabilizer		
Features	Thermal Stability Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.54	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (340°C/2.16 kg)	13.0 - 20.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction: 24 hours	0.72	%	ISO 294-4
Flow direction: 24 hours	0.21	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	10600	MPa	ISO 527-2/1
Tensile Stress (Break)	190	MPa	ISO 527-2/5
Tensile Strain (Break)	2.1	%	ISO 527-2/5
Flexural Modulus [1]			ISO 178
--	9200	MPa	ISO 178
80°C	8400	MPa	ISO 178
100°C	7600	MPa	ISO 178
120°C	5400	MPa	ISO 178
150°C	3800	MPa	ISO 178
180°C	3500	MPa	ISO 178
200°C	3100	MPa	ISO 178
Flexural Stress			ISO 178
--	251	MPa	ISO 178
80°C	214	MPa	ISO 178

100°C	194	MPa	ISO 178
120°C	141	MPa	ISO 178
150°C	97.0	MPa	ISO 178
180°C	82.0	MPa	ISO 178
200°C	71.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.48		ASTM D3702 Modified
With Self-Static	0.52		ASTM D3702 Modified
Flexural Strain at Break [2]			ISO 178
--	2.8	%	ISO 178
80°C	3.1	%	ISO 178
100°C	3.9	%	ISO 178
120°C	5.3	%	ISO 178
150°C	5.0	%	ISO 178
180°C	4.8	%	ISO 178
200°C	4.8	%	ISO 178
Wear Factor - Washer	5.00	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ISO 180/1A
-40°C [3]	12	kJ/m²	ISO 180/1A
23°C [4]	12	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength [5]			ISO 180/1U
-40°C	45	kJ/m²	ISO 180/1U
23°C	50	kJ/m²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [6] (1.8 MPa, Unannealed, 64.0 mm Span)	280	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	2.2E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	5.8E-5	cm/cm/°C	ISO 11359-2
Specific Heat	1720	J/kg/°C	ASTM E1269
Thermal Conductivity	0.24	W/m/K	ASTM D5930
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	310 - 321	°C	
Middle Temperature	316 - 327	°C	
Front Temperature	327 - 338	°C	
Processing (Melt) Temp	316 - 332	°C	
Mold Temperature	138 - 166	°C	
Back Pressure	0.172 - 0.344	MPa	

Screw Speed	30 - 60	rpm

NOTE	
1.	2.0 mm/min
2.	2 mm/min
3.	80*10*3
4.	80*10*4
5.	80*10*4
6.	80*10*4 mm

Recommended distributors for this material

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