

LNP™ LUBRICOMP™ WFL36E compound

Polybutylene Terephthalate

SABIC Innovative Plastics Europe

Message:

LNP* LUBRICOMP* WFL36E is a compound based on Polybutyleneterephthalate resin containing Glass Fiber and PTFE. Added features include: Easy Molding and Wear Resistant. UL rating only applicable for color GY

Also known as: LNP* LUBRICOMP* Compound WFL-4036 EM

Product reorder name: WFL36E

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	PTFE Lubricant		
Features	Good Moldability		
	Good Wear Resistance		
	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.70	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 to 0.30	%	Internal Method
Water Absorption (23°C, 24 hr)	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10100	MPa	ISO 527-2/1
Tensile Stress (Break)	114	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	%	ISO 527-2/5
Flexural Modulus ¹	9500	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	175	MPa	
-- ⁴	172	MPa	
Coefficient of Friction (vs. Itself - Dynamic)	0.54		ASTM D3702 Modified
Flexural Strain at Break ⁵	2.7	%	ISO 178
Wear Factor - Washer	24.0	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁶ (23°C)	10	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	45	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, Unannealed, 64.0 mm Span	220	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	207	°C	ISO 75-2/Af
CLTE			ISO 11359-2

Flow : 23 to 60°C	2.0E-5	cm/cm/°C
Transverse : 23 to 60°C	1.2E-4	cm/cm/°C
Flammability	Nominal Value	Test Method
Flame Rating (1.50 mm)	HB	UL 94
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.	2.0 mm/min	
2.	2.0 mm/min	
3.	Yield	
4.	Break	
5.	2 mm/min	
6.	80*10*4	
7.	80*10*4	
8.	80*10*4 mm	

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