

LNP™ LUBRICOMP™ LCL33 compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP LUBRICOMP LCL33 is a compound based on Polyetheretherketone resin containg Carbon Fiber, PTFE. Added features include: Elecrctically Conductive , Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound LCL-4033
Product reorder name: LCL33

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE lubricant		
Features	Conductivity		
	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (400°C/10.0 kg)	6.00 - 8.00	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13500	MPa	ISO 527-2/1
Tensile Stress (Break)	162	MPa	ISO 527-2/5
Tensile Strain (Break)	2.9	%	ISO 527-2/5
Flexural Modulus ¹			ISO 178
--	10700	MPa	ISO 178
80°C	10300	MPa	ISO 178
120°C	10200	MPa	ISO 178
150°C	5700	MPa	ISO 178
200°C	3000	MPa	ISO 178
250°C	2.60	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	223	MPa	ISO 178
-- ⁴	255	MPa	ISO 178
80°C ⁵	192	MPa	ISO 178
120°C ⁶	158	MPa	ISO 178
150°C ⁷	100	MPa	ISO 178
200°C ⁸	60.0	MPa	ISO 178
250°C ⁹	50.0	MPa	ISO 178
Coefficient of Friction	ASTM D3702 Modified		

With self-dynamics	0.35		ASTM D3702 Modified
With Self-Static	0.28		ASTM D3702 Modified
Flexural Strain at Break ¹⁰			ISO 178
--	2.7	%	ISO 178
80°C	2.7	%	ISO 178
120°C	2.7	%	ISO 178
150°C	6.0	%	ISO 178
200°C	6.3	%	ISO 178
250°C	6.5	%	ISO 178
Wear Factor - Washer	17.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹¹ (23°C)	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ¹² (23°C)	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹³ (1.8 MPa, Unannealed, 64.0 mm Span)	> 300	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	9.5E-6	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	5.3E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 - 1.0E+5	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	349 - 360	°C	
Middle Temperature	366 - 377	°C	
Front Temperature	382 - 393	°C	
Processing (Melt) Temp	382 - 388	°C	
Mold Temperature	138 - 166	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	60 - 100	rpm	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	Yield		
4.	Break		
5.	Yield		
6.	Yield		
7.	Yield		
8.	Yield		
9.	Yield		

10.	2 mm/min
11.	80*10*4
12.	80*10*4
13.	80*10*4 mm

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