

LNP™ LUBRICOMP™ LCL33EXQ compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP LUBRICOMP LCL33EXQ is a compound based on Polyetheretherketone containing 15% Carbon Fiber, 15% PTFE. Added features of this material include: Wear Resistant, Easy Molding.

Also known as: LNP* LUBRICOMP* Compound LCL33EXQ

Product reorder name: LCL33EXQ

General Information			
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Moldability		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm³	ASTM D792
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	30.0	cm³/10min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	16000	MPa	ASTM D638
--	14000	MPa	ISO 527-2/1
Tensile Strength			
Break ²	185	MPa	ASTM D638
Break	181	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.8	%	ASTM D638
Break	1.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	13400	MPa	ASTM D790
-- ⁵	13500	MPa	ISO 178
Flexural Stress			
--	276	MPa	ISO 178
Break, 50.0 mm Span ⁶	277	MPa	ASTM D790
Poisson's Ratio	0.43		ISO 527-2
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.37		
vs. Itself - Static	0.35		

Wear Factor - Washer	14.0	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 ⁷	5.3	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	320	°C	ASTM D648
CLTE			ASTM E831
Flow : -30 to 150°C	1.5E-5	cm/cm/°C	
Transverse : -30 to 150°C	5.1E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	370 to 380	°C	
Middle Temperature	380 to 400	°C	
Front Temperature	380 to 400	°C	
Mold Temperature	175 to 190	°C	
Back Pressure	0.300 to 0.700	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		

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