

LNP™ LUBRICOMP™ LCL33E compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* LCL33E is a compound based on Polyetheretherketone resin containing 15% Carbon Fiber, 15% PTFE. Added features of this material include: Easy Molding, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound LCL-4033 EM

Product reorder name: LCL33E

General Information			
UL YellowCard	E121562-101283895		
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	1.43	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.30	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	0.40 to 0.70	%	ASTM D955
Across Flow : 24 hr	0.30 to 0.70	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.070	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.70	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	16600	MPa	ASTM D638
--	14700	MPa	ISO 527-2/1
Tensile Strength			
Break	180	MPa	ASTM D638
Break	187	MPa	ISO 527-2
Tensile Elongation			
Break	1.7	%	ASTM D638
Break	1.6	%	ISO 527-2
Flexural Modulus			
--	13000	MPa	ASTM D790
--	14700	MPa	ISO 178
Flexural Strength			

--	267	MPa	ASTM D790
--	276	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.35		
vs. Itself - Static	0.28		
Wear Factor - Washer	13.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	64	J/m	ASTM D256
23°C ²	6.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	490	J/m	ASTM D4812
23°C ³	35	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	8.80	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	> 299	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	> 240	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	2.4E-5	cm/cm/°C	
Transverse : -40 to 40°C	4.2E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	V-0		UL 94
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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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