

LNP™ LUBRICOMP™ EL003 compound

Polyether Imide
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* EL003 is a compound based on Polyetherimide resin containing PTFE. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound EL-4030
Product reorder name: EL003

General Information			
UL YellowCard	E45329-101283805		
Additive	PTFE lubricant		
Features	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.80 - 1.1	%	ASTM D955
Transverse flow: 24 hours	0.80 - 1.1	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.21	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2760	MPa	ASTM D638
--	2740	MPa	ISO 527-2/1
Tensile Strength			
Yield	88.7	MPa	ASTM D638
Yield	83.0	MPa	ISO 527-2
Fracture	85.2	MPa	ASTM D638
Fracture	82.0	MPa	ISO 527-2
Tensile Elongation			
Yield	6.5	%	ASTM D638
Yield	6.3	%	ISO 527-2
Fracture	10	%	ASTM D638
Fracture	8.1	%	ISO 527-2
Flexural Modulus			
--	2900	MPa	ASTM D790
--	3020	MPa	ISO 178
Flexural Strength			
--	136	MPa	ASTM D790

--	130	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.30		ASTM D3702 Modified
With Self-Static	0.23		ASTM D3702 Modified
Wear Factor - Washer	106	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 ²	8.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	750	J/m	ASTM D4812
23°C ³	62	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	9.60	J	ASTM D3763
--	1.48	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	182	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	182	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	4.8E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	4.8E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 - 354	°C	
Middle Temperature	354 - 366	°C	
Front Temperature	366 - 377	°C	
Processing (Melt) Temp	360 - 366	°C	
Mold Temperature	121 - 149	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	60 - 100	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

