

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	E207780-101283810		
Additive	PTFE lubricant		
Features	Lubrication		
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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

