

LNP™ LUBRICOMP™ DL003E compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* DL003E is a compound based on Polycarbonate resin containing 15% PTFE. Added features of this material include: Easy Molding, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound DL-4030 EM

Product reorder name: DL003E

General Information			
Additive	PTFE Lubricant (15%)		
Features	Good Moldability		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.28	g/cm ³	ASTM D792
--	1.29	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.80 to 0.90	%	
Across Flow : 24 hr	0.80 to 0.90	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2190	MPa	ASTM D638
--	2200	MPa	ISO 527-2/1
Tensile Strength			
Yield	45.1	MPa	ASTM D638
Yield	54.0	MPa	ISO 527-2
Break	50.3	MPa	ASTM D638
Break	50.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.6	%	ASTM D638
Yield	5.5	%	ISO 527-2
Break	26	%	ASTM D638
Break	9.6	%	ISO 527-2
Flexural Modulus			
--	2310	MPa	ASTM D790
--	2300	MPa	ISO 178
Flexural Strength			

--	82.5	MPa	ASTM D790
--	84.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.18		
vs. Itself - Static	0.070		
Wear Factor - Washer	60.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	140	J/m	ASTM D256
23°C ²	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	2100	J/m	ASTM D4812
23°C ³	100	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 64.0 mm Span ⁴	138	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	117	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	128	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	7.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	7.6E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	7.5E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	304 to 316	°C	
Front Temperature	310 to 321	°C	
Processing (Melt) Temp	299 to 316	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	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.

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



WECHAT