

LNP™ LUBRICOMP™ QL002 compound

Polyamide 610

SABIC Innovative Plastics

Message:

LNP LUBRICOMP QL002 is a compound based on Nylon 6/10 containing 10% PTFE. Added features of this grade are: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound QL-4020

Product reorder name: QL002

General Information			
Additive	PTFE Lubricant (10%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.15	g/cm ³	
--	1.14	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.90 to 3.0	%	
Across Flow : 24 hr	1.0 to 4.0	%	
Water Absorption			
24 hr, 50% RH	0.26	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.38	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2680	MPa	ASTM D638
--	2490	MPa	ISO 527-2/1
Tensile Strength			
Break ²	52.0	MPa	ASTM D638
Break	61.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.4	%	ASTM D638
Break	4.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	2270	MPa	ASTM D790
-- ⁵	2050	MPa	ISO 178
Flexural Stress	73.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.39		
vs. Itself - Static	0.26		

Wear Factor			ASTM D3702 Modified
Ring	0.0500	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	35.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	39	J/m	ASTM D256
23°C ⁶	4.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	400	J/m	ASTM D4812
23°C ⁷	43	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	3.40	J	ASTM D3763
--	0.900	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	164	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁸	143	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	63.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	54.0	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.12 to 0.20	%	
Rear Temperature	249 to 260	°C	
Middle Temperature	260 to 271	°C	
Front Temperature	271 to 282	°C	
Processing (Melt) Temp	271 to 277	°C	
Mold Temperature	82.2 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 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.	80*10*4		
7.	80*10*4		
8.	80*10*4 mm		
9.	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

