

LNP™ LUBRICOMP™ QAP22S compound

Polyamide 610
SABIC Innovative Plastics

Message:

LNP LUBRICOMP QAP22S is a compound based on Nylon 6/10 resin containing PTFE, Aramid Fiber, Silicone. Added features of this material include: Internally Lubricated, Heat Stabilized.

Also known as: LNP* LUBRICOMP* Compound QAL-4522 HS

Product reorder name: QAP22S

General Information			
Filler / Reinforcement	Aramid fiber		
Additive	PTFE silicone lubricant heat stabilizer		
Features	Thermal Stability Lubrication		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	1.0	%	ASTM D955
Transverse flow: 24 hours	1.8	%	ASTM D955
Vertical flow direction: 24 hours	1.8	%	ISO 294-4
Flow direction: 24 hours	1.0	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.30	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3450	MPa	ASTM D638
--	3310	MPa	ISO 527-2/1
Tensile Strength			
Yield	45.5	MPa	ASTM D638
Yield	50.0	MPa	ISO 527-2
Fracture	45.5	MPa	ASTM D638
Fracture	50.0	MPa	ISO 527-2
Tensile Elongation			
Yield	1.8	%	ASTM D638
Yield	2.3	%	ISO 527-2
Fracture	1.8	%	ASTM D638
Fracture	2.3	%	ISO 527-2
Flexural Modulus			
--	2760	MPa	ASTM D790

--	3000	MPa	ISO 178
Flexural Strength			
--	103	MPa	ASTM D790
--	76.0	MPa	ISO 178
Coefficient of Friction			
With self-dynamics	0.41		ASTM D3702 Modified
With Self-Static	0.26		ASTM D3702 Modified
Wear Factor - Washer	11.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	37	J/m	ASTM D256
23°C ²	4.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	350	J/m	ASTM D4812
23°C ³	33	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	1.10	J	ASTM D3763
--	1.40	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	204	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	193	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	119	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	94.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	8.5E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	8.4E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	6.3E-5	cm/cm/°C	ASTM E831, ISO 11359-2
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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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

