

LNP™ LUBRICOMP™ QAP22S compound

Polyamide 610
SABIC Innovative Plastics

Message:

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

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

Product reorder name: QAP22S

General Information			
Filler / Reinforcement	Aramid Fiber,10% Filler by Weight		
Additive	Heat Stabilizer		
	PTFE + Silicone Lubricant (10%)		
Features	Good Wear Resistance		
	Heat Stabilized		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	1.0	%	
Across Flow : 24 hr	1.8	%	
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
Break	45.5	MPa	ASTM D638
Break	50.0	MPa	ISO 527-2
Tensile Elongation			
Yield	1.8	%	ASTM D638
Yield	2.3	%	ISO 527-2
Break	1.8	%	ASTM D638
Break	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			ASTM D3702 Modified
vs. Itself - Dynamic	0.41		
vs. Itself - Static	0.26		
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, 3.20 mm	204	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	193	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	119	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	94.0	°C	ISO 75-2/Af
CLTE			
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
Transverse : -40 to 40°C	6.3E-5	cm/cm/°C	ASTM E831, ISO 11359-2
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.	80*10*4		

3.	80*10*4
4.	80*10*4 mm
5.	80*10*4 mm

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