

## SABIC Innovative Plastics LNP LUBRICOMP QAP22S PA6.10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

### Material Notes:

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.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-QAP22S-PA610.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-QAP22S-PA610.php)

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in <sup>3</sup>	ASTM D792
	1.17 g/cc	0.0423 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.300 %	0.300 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	ASTM D638
	50.0 MPa	7250 psi	ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	ASTM D638
	50.0 MPa	7250 psi	ISO 527
Elongation at Break	1.8 %	1.8 %	ASTM D638
	2.3 %	2.3 %	ISO 527
Elongation at Yield	1.8 %	1.8 %	ASTM D638
	2.3 %	2.3 %	ISO 527
Tensile Modulus	3.31 GPa	480 ksi	1 mm/min; ISO 527

Mechanical Properties	3.44 GPa Metric	499 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	76.0 MPa	11000 psi	ISO 178
	103 MPa	14900 psi	ASTM D790
Flexural Modulus	2.75 GPa	399 ksi	ASTM D790
	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.52 J/cm	6.59 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	32.0 kJ/m <sup>2</sup>	15.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	1.00 J	0.738 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.41	0.41	ASTM D3702 Modified
Coefficient of Friction, Static	0.26	0.26	ASTM D3702 Modified
K (wear) Factor	22.2 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	11.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	84.0 Åµm/m-Å°C	46.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	84.6 Åµm/m-Å°C	47.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	63.0 Åµm/m-Å°C	35.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	63.0 Åµm/m-Å°C	35.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	193 Å°C	379 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	203 Å°C	397 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Thermal Properties (204 psi)	Metric C	English	Comments
Temperature at 1.8 MPa	118 Å°C	244 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China