

SABIC Innovative Plastics LNP LUBRICOMP QFL17RS PA 6/10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP LUBRICOMP* QFL17RS is a compound based on Nylon 6/10 resin containing 35% Glass Fiber, 5% PTFE. Added features of this material include: Easy Release, Heat Stabilized, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-QFL17RS-PA-610.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Moisture Absorption	0.180 %	0.180 %	50% RH, 24 hrs; ASTM D570
	0.300 %	0.300 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0015 cm/cm	0.0015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0073 cm/cm	0.0073 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	183 MPa	26500 psi	ISO 527
	192 MPa	27800 psi	ASTM D638
Elongation at Break	3.4 %	3.4 %	ISO 527
	3.5 %	3.5 %	ASTM D638
Tensile Modulus	10.6 GPa	1540 ksi	1 mm/min; ISO 527
	11.92 GPa	1729 ksi	50 mm/min; ASTM D638
Flexural Strength	273 MPa	39600 psi	ISO 178
	282 MPa	40900 psi	ASTM D790

Flexural Modulus Mechanical Properties	9.03 GPa Metric	1310 ksi English	ASTM D790 Comments
	9.80 GPa	1420 ksi	ISO 178
Izod Impact, Notched	1.76 J/cm	3.30 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.72 J/cm	25.70 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	16.0 kJ/mÂ²	7.61 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	88.0 kJ/mÂ²	41.9 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.2 Âµm/m-Â°C	24.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	44.8 Âµm/m-Â°C	24.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	59.4 Âµm/m-Â°C	33.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	59.8 Âµm/m-Â°C	33.2 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	222 Â°C	432 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	208 Â°C	406 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	214 Â°C	417 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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