

LNP™ LUBRICOMP™ QCP36 compound

Polyamide 610

SABIC Innovative Plastics

Message:

LNP LUBRICOMP QCP36 is a compound based on Nylon 6/10 resin containing 15% PTFE/Silicone, 30% Carbon Fiber. Added features of this material include: Wear Resistant. Electrically Conductive

Also known as: LNP* LUBRICOMP* Compound QCL-4536

Product reorder name: QCP36

General Information			
UL YellowCard	E121562-100990010		
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Electrically Conductive		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.40	%	ASTM D955
Across Flow : 24 hr	0.80	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.35	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	19900	MPa	ASTM D638
--	19200	MPa	ISO 527-2/1
Tensile Strength ²			ASTM D638
Yield	174	MPa	
Break	174	MPa	
Tensile Elongation ³			ASTM D638
Yield	1.9	%	
Break	2.0	%	
Flexural Modulus ⁴ (50.0 mm Span)	16500	MPa	ASTM D790
Flexural Strength	283	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.46		
vs. Itself - Static	0.46		
Wear Factor - Washer	15.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ⁵	7.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	800	J/m	ASTM D4812
23°C ⁶	50	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.30	J	ASTM D3763
--	3.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	221	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁷	222	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	213	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁸	212	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	4.9E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	4.8E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	2.5E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	2.6E-5	cm/cm/°C	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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	80*10*4		
6.	80*10*4		
7.	80*10*4 mm		
8.	80*10*4 mm		

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