

LNP™ LUBRICOMP™ QFL17RS compound

Polyamide 610
SABIC Innovative Plastics

Message:

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.

Also known as: LNP* LUBRICOMP* Compound QFL-4017 ER HS

Product reorder name: QFL17RS

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Additive	Heat Stabilizer PTFE Lubricant (5%)		
Features	Good Mold Release Good Wear Resistance Heat Stabilized Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10	%	ASTM D955
Across Flow : 24 hr	0.70	%	ASTM D955
Across Flow : 24 hr	0.73	%	ISO 294-4
Flow : 24 hr	0.15	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.19	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11900	MPa	ASTM D638
--	10600	MPa	ISO 527-2/1
Tensile Strength			
Break	192	MPa	ASTM D638
Break	183	MPa	ISO 527-2
Tensile Elongation			
Break	3.5	%	ASTM D638
Break	3.4	%	ISO 527-2
Flexural Modulus			

--	9030	MPa	ASTM D790
--	9800	MPa	ISO 178
Flexural Strength			
--	283	MPa	ASTM D790
--	273	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	180	J/m	ASTM D256
23°C ²	17	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1400	J/m	ASTM D4812
23°C ³	88	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	11.8	J	ASTM D3763
--	4.76	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	223	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	214	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	208	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	4.3E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	4.5E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	5.9E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	6.0E-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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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