

LNP™ LUBRICOMP™ RL0049S compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* RL0049S is a compound based on Nylon 66 resin containing 20% PTFE. Added features of this material include: Flame Retardant, Heat Stabilized, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound RL-4040 FR HS

Product reorder name: RL0049S

General Information			
Additive	Heat Stabilizer		
	PTFE Lubricant (20%)		
Features	Flame Retardant		
	Good Wear Resistance		
	Heat Stabilized		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	1.5	%	
Across Flow : 24 hr	1.7	%	
Water Absorption			
24 hr, 50% RH	0.39	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.55	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3180	MPa	ASTM D638
--	3170	MPa	ISO 527-2/1
Tensile Strength			
Break	47.3	MPa	ASTM D638
Break	46.0	MPa	ISO 527-2
Tensile Elongation			
Break	2.2	%	ASTM D638
Break	2.0	%	ISO 527-2
Flexural Modulus			
--	3100	MPa	ASTM D790
--	2970	MPa	ISO 178
Flexural Strength			

--	77.6	MPa	ASTM D790
--	78.7	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	21	J/m	ASTM D256
23°C ²	2.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	170	J/m	ASTM D4812
23°C ³	11	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	0.570	J	ASTM D3763
--	0.740	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	95.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	90.0	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	277 to 288	°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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