

LNP™ LUBRICOMP™ AL0039 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* AL0039 is a compound based on ABS containing 15% PTFE. Added features of this material include: Flame Retardant, Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound AL-4030 FR-1
Product reorder name: AL0039

General Information			
Additive	PTFE Lubricant (15%)		
Features	Flame Retardant		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.60 to 0.80	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.23	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.33	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2420	MPa	ASTM D638
--	2250	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	38.0	MPa	ASTM D638
Yield	37.0	MPa	ISO 527-2/5
Break ³	35.0	MPa	ASTM D638
Break	34.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.3	%	ASTM D638
Yield	2.3	%	ISO 527-2/5
Break ⁵	7.8	%	ASTM D638
Break	8.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2480	MPa	ASTM D790
-- ⁷	2350	MPa	ISO 178
Flexural Strength ⁸ (Yield, 50.0 mm Span)	69.0	MPa	ASTM D790

Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.24		
vs. Itself - Static	0.12		
Wear Factor			ASTM D3702 Modified
Ring	0.450	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	107	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	28	J/m	ASTM D256
23°C ⁹	2.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	230	J/m	ASTM D4812
23°C ¹⁰	16	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	2.80	J	ASTM D3763
--	1.30	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	95.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	96.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	84.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	84.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	9.4E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.9E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 to 0.10	%	
Rear Temperature	204 to 216	°C	
Middle Temperature	232 to 243	°C	
Front Temperature	266 to 277	°C	
Processing (Melt) Temp	260	°C	
Mold Temperature	71.1 to 82.2	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		

6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

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