

LNP Lubricomp* DFL-4034 FR 94V-0

Polycarbonate

SABIC Innovative Plastics

General		
Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber Reinforcement	
Additive	• PTFE Lubricant	
Features	• Flame Retardant	• Lubricated
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792A ISO 1183
Molding Shrinkage			ASTM D955 ISO 294-4
Flow: 24 hr	0.40 to 0.60	%	
Across Flow: 24 hr	0.40 to 0.60	%	
Water Absorption			
24 hr	0.0	%	ASTM D570
24 hr, 23°C	0.12	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	6530	MPa	ASTM D638
--	7220	MPa	ISO 527-2
Tensile Strength			
Break	88.9	MPa	ASTM D638
Break	98.0	MPa	ISO 527-2
Tensile Elongation			
Break	2.4	%	ASTM D638
Break	3.4	%	ISO 527-2
Flexural Modulus			
--	5880	MPa	ASTM D790
--	5830	MPa	ISO 178
Flexural Strength			
--	152	MPa	ASTM D790
--	146	MPa	ISO 178
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.42		
vs. Steel - Static	0.34		

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
3.18 mm	107	J/m	ASTM D256
--	11.9	kJ/m ²	ISO 180
Unnotched Izod Impact			
3.18 mm	502	J/m	ASTM D256
--	40.6	kJ/m ²	ISO 180
Instrumented Dart Impact			
--	15.6	J	ASTM D3763
--	12.8	J	ISO 6603-2

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648 ISO 75-2/A
1.8 MPa, Unannealed	138	°C	
CLTE			
Flow	0.000020	cm/cm/°C	ASTM E831 ISO 11359-2
Transverse	0.000061	cm/cm/°C	ASTM E831
Transverse	0.000062	cm/cm/°C	ISO 11359-2

Additional Information

The values displayed above as Coef. of Friction and Wear Factor were tested in accordance with SABIC WI-0687.

COEFFICIENT OF FRICTION vs. Steel, Dynamic @ 40 psi, 50 ft/min, SABIC WI-0687: 0.42

COEFFICIENT OF FRICTION vs. Steel, Static @ 40 psi, SABIC WI-0687: 0.34

WEAR FACTOR @ 40 psi, 50 ft/min, SABIC WI-0687: 115 10⁻¹⁰ in⁵-min/ft-lb-hr

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	304 to 327	°C
Mold Temperature	79.4 to 107	°C
Back Pressure	0.172 to 0.345	MPa

Notes

¹ Typical properties: these are not to be construed as specifications.