

**LNP™ LUBRICOMP™ Compound ML004S - Americas**

(PP+PTFE)

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LNP LUBRICOMP ML004S compound is based on Polypropylene (PP) resin containing 20% PTFE. Added features of this grade include: Wear Resistant, Heat Stabilized.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	3	mm/mm	ASTM D 955
Mold Shrinkage, TD	3	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	1660	MPa	ISO 527
Yield stress	31	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	29	MPa	ISO 527
Strain at break	13	%	ISO 527
Flexural modulus	1690	MPa	ISO 178
Flexural strength	44	MPa	ISO 178
Izod impact strength, +23°C, 4mm	22	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m <sup>2</sup>	ISO 180/1A

<b>ASTM Data</b>			
Tensile Modulus	2020	MPa	ASTM D 638
Tensile Strength at Yield	33	MPa	ASTM D 638
Tensile Strength at Break	30	MPa	ASTM D 638
Elongation at Yield	5.6	%	ASTM D 638
Elongation at Break	15	%	ASTM D 638
Flexural Modulus	1760	MPa	ASTM D 790
Izod Impact notched, 1/8 in	44	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	348	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	60	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	105	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	91.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	3980	E-6/K	ASTM D 696
DTUL @ 66 psi	119	°C	ASTM D 648
DTUL @ 264 psi	65	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.02	%	Sim. to ISO 62
Water Absorption, 24hr	0.02	%	ASTM D 570
Density	1030	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	225 - 250	°C	-
Mold temperature	30 - 50	°C	-
Zone 1	195 - 205	°C	-
Zone 2	215 - 225	°C	-
Zone 3	240 - 250	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics**

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**Processing**

Injection Molding

**Regional Availability**

North America