

LNP™ LUBRICOMP™ Compound ML003S

(PP+PTFE)

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRICOMP ML003S compound is based on Polypropylene (PP) resin containing 15% PTFE. Added features of this grade include: Heat Stabilized, Wear Resistant.

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

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1680	MPa	ISO 527
Yield stress	33	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	28	MPa	ISO 527
Strain at break	18	%	ISO 527
Flexural modulus	1700	MPa	ISO 178
Flexural strength	42	MPa	ISO 178
Izod impact strength, +23°C, 4mm	33	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	1980	MPa	ASTM D 638
Tensile Strength at Yield	34	MPa	ASTM D 638
Tensile Strength at Break	27	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	23	%	ASTM D 638
Flexural Modulus	1590	MPa	ASTM D 790
Izod Impact notched, 1/8 in	38	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	499	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	57	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	102	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	91.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	106	E-6/K	ASTM D 696
DTUL @ 66 psi	111	°C	ASTM D 648
DTUL @ 264 psi	57	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.01	%	Sim. to ISO 62
Density	990	kg/m ³	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

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific