

LNP™ LUBRICOMP™ Compound ABL12

(ABS+PTFE)-GB10

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRICOMP ABL12 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 10% glass bead and 5% PTFE. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.1	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2280	MPa	ISO 527
Yield stress	32	MPa	ISO 527
Stress at break	31	MPa	ISO 527
Strain at break	28	%	ISO 527
Flexural modulus	2280	MPa	ISO 178
Flexural strength	59	MPa	ISO 178
Izod impact strength, +23°C, 4mm	33	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2580	MPa	ASTM D 638
Tensile Strength at Yield	33	MPa	ASTM D 638
Tensile Strength at Break	31	MPa	ASTM D 638
Elongation at Break	15	%	ASTM D 638
Flexural Modulus	2380	MPa	ASTM D 790
Flexural Strength	62	MPa	ASTM D 790
Izod Impact notched, 1/8 in	80	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	560	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	88	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	80	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1140	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	260	°C	-
Mold temperature	70 - 80	°C	-
Zone 1	205 - 215	°C	-
Zone 2	230 - 245	°C	-
Zone 3	265 - 275	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific