

**Product Texts**

LNP LUBRICOMP NX20BSR compound is based on a low-gloss black Polycarbonate / Acrylonitrile Butadiene Styrene (PC/ABS) blend with good Buzz, Squeak and Rattle (BSR) performance. Added features of this grade include: Low Slip-Stick, Internally Lubricated and Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	21	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	23	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2170	MPa	ISO 527
Yield stress	50	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	44	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2090	MPa	ISO 178
Charpy impact strength, +23°C	402	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	49	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	16	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C, 4mm	208	kJ/m <sup>2</sup>	ISO 180/1U
Izod impact strength, -30°C, 4mm	248	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	40	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	14	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2280	MPa	ASTM D 638
Tensile Strength at Yield	56	MPa	ASTM D 638
Tensile Strength at Break	46	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	86	%	ASTM D 638
Flexural Modulus	2180	MPa	ASTM D 790
Izod Impact notched, 1/8 in	747	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	463	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	104	°C	ISO 75-1/-2
Vicat softening temperature, B	126	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	124	°C	ISO 306
<b>ASTM Data</b>			
DTUL @ 66 psi	125	°C	ASTM D 648
DTUL @ 264 psi	103	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1120	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.097	%	ASTM D 570

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	105 - 110	°C	-
Processing humidity	≤0.02	%	-
Melt temperature	270 - 310	°C	-
Mold temperature	60 - 80	°C	-

**LNP™ LUBRICOMP™ Compound NX20BSR**

(PC+ABS)

Saudi Basic Industries Corporation (SABIC)

Zone 1	<b>250 - 290</b>	°C	-
Zone 2	<b>255 - 285</b>	°C	-
Zone 3	<b>260 - 300</b>	°C	-
Screw speed	<b>40 - 70</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific