

Product Texts

LNP LUBRICOMP DX19519H compound is based on Polycarbonate (PC) resin containing proprietary fillers. Added features of this grade include: Healthcare, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	24.2	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	27.7	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.83	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.94	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2090	MPa	ISO 527
Yield stress	57.7	MPa	ISO 527
Yield strain	5.9	%	ISO 527
Stress at break	45.2	MPa	ISO 527
Strain at break	45.2	%	ISO 527
Flexural modulus	2160	MPa	ISO 178
Charpy impact strength, +23°C	224	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	304	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	43.8	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	16.9	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	169	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	28.6	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	44.8	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	16.1	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2135	MPa	ASTM D 638
Tensile Strength at Yield	57.6	MPa	ASTM D 638
Tensile Strength at Break	45.8	MPa	ASTM D 638
Elongation at Yield	5.97	%	ASTM D 638
Elongation at Break	45.9	%	ASTM D 638
Flexural Modulus	2085	MPa	ASTM D 790
Izod Impact notched, 1/8 in	614	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	156	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	120	°C	ISO 75-1/-2
Vicat softening temperature, B	146	°C	ISO 306
ASTM Data			
DTUL @ 264 psi	123	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.28	%	Sim. to ISO 62
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	295 - 315	°C	-

Mold temperature	70 - 95	°C	-
Zone 1	270 - 295	°C	-
Zone 2	280 - 305	°C	-
Zone 3	295 - 315	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific