

Product Texts

LNP LUBRICOMP HAL23 compound is based on Nylon 11 resin containing 15% aramid fiber, 10% PTFE. Added features of this grade include: Internally Lubricated, Wear Resistant.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1400	MPa	ISO 527
Yield stress	45	MPa	ISO 527
Yield strain	17	%	ISO 527
Stress at break	42	MPa	ISO 527
Flexural modulus	1900	MPa	ISO 178
Izod impact strength, +23°C, 4mm	40	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	72	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	174	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	80	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	140	E-6/K	ISO 11359-1/-2

Other properties	Value	Unit	Test Standard
Density	1140	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.15	%	-
Melt temperature	225 - 260	°C	-
Mold temperature	45 - 55	°C	-
Zone 1	200 - 210	°C	-
Zone 2	230 - 245	°C	-
Zone 3	260 - 270	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific