

LNP* Lubricomp* Compound Noryl_NF1520

Americas: COMMERCIAL

LNP* Lubricomp* Noryl_NF1520 compound is a 20% glass reinforced, 15% PTFE. Wear resistant; 211F HDT @ 264 psi.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	74	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	74	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	4.2	%	ASTM D 638
Flexural Stress, yld, 2.6 mm/min, 100 mm span	101	MPa	ASTM D 790
Flexural Modulus, 2.6 mm/min, 100 mm span	5300	MPa	ASTM D 790
K-factor xE-10, PV=2000 psi-fpm vs Steel	73	-	SABIC Method
Coefficient of Friction on steel, Static	0.3	-	ASTM D 1894
Coefficient of Friction on steel, Kinetic	0.46	-	ASTM D 1894
IMPACT			
	Value	Unit	Standard
Izod Impact, unnotched, 23°C	357	J/m	ASTM D 4812
Izod Impact, notched, 23°C	74	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	16	J	ASTM D 3763
THERMAL			
	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	102	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	96	°C	ASTM D 648
HDT, 0.45 MPa, 6.4 mm, unannealed	105	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	99	°C	ASTM D 648
Relative Temp Index, Elec	50	°C	UL 746B
Relative Temp Index, Mech w/impact	50	°C	UL 746B
Relative Temp Index, Mech w/o impact	50	°C	UL 746B
PHYSICAL			
	Value	Unit	Standard
Specific Gravity	1.34	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.15 - 0.25	%	SABIC Method
Mold Shrinkage, xflow, 3.2 mm	0.25 - 0.45	%	SABIC Method
FLAME CHARACTERISTICS			
	Value	Unit	Standard
UL Recognized, 94HB Flame Class Rating (3)	1.49	mm	UL 94

Source GMD, last updated:12/29/1999

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	105 - 110	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	8	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	275 - 305	°C
Nozzle Temperature	275 - 305	°C
Front - Zone 3 Temperature	265 - 305	°C
Middle - Zone 2 Temperature	255 - 300	°C

Rear - Zone 1 Temperature	245 - 295	°C
Mold Temperature	70 - 100	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	20 - 100	rpm
Shot to Cylinder Size	30 - 70	%
Vent Depth	0.038 - 0.051	mm

Source GMD, last updated:12/29/1999

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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