

LNP* Lubricomp* Compound DI001L

Americas: COMMERCIAL

Also known as: LUBRICOMP DL-4410 LE
Product Reorder Name: DI001L

LNP* Lubricomp* DL-4410 LE is a Polycarbonate containing Silicone. Added characteristics of this grade is Low Extractable.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	58	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	46	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	6.6	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	49	%	ASTM D 638
Tensile Modulus, 50 mm/min	2280	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	2360	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	57	MPa	ISO 527
Tensile Stress, break, 5 mm/min	48	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	6.3	%	ISO 527
Tensile Strain, break, 5 mm/min	42.8	%	ISO 527
Tensile Modulus, 1 mm/min	2210	MPa	ISO 527
Flexural Stress	72	MPa	ISO 178
Flexural Modulus, 2 mm/min	2110	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	2060	J/m	ASTM D 4812
Izod Impact, notched, 23°C	782	J/m	ASTM D 256
Multiaxial Impact	48	J	ISO 6603
Instrumented Impact Total Energy, 23°C	41	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	179	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	62	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	141	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	128	°C	ASTM D 648
CTE, -30°C to 30°C, flow	5.7E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.8E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	141	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	127	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.19	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.17	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.5 - 0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7 - 1	%	ASTM D 955
Wear Factor Washer	435	10 ⁻⁵ in ³ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.16	-	ASTM D 3702 Modified
Static COF	0.18	-	ASTM D 3702 Modified
Moisture Absorption (23°C / 50% RH)	0.22	%	ISO 62

Parameter	Value	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	300 - 315	°C
Front - Zone 3 Temperature	310 - 320	°C
Middle - Zone 2 Temperature	305 - 315	°C
Rear - Zone 1 Temperature	295 - 305	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:08/22/2008

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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