



LNP™ LUBRICOMP™ Compound DL003EXJ

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound DL-4030 EM LE HC

Product reorder name: DL003EXJ

LNP™ LUBRICOMP™ DL003EXJ is a compound based on Polycarbonate containing 15% PTFE. Characteristics of this grade are Easy Molding, Low Extractable, Wear Resistant, Healthcare.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	460	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	380	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	5.6	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	17.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	21300	kgf/cm ²	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	22300	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	45	MPa	ISO 527
Tensile Stress, break, 5 mm/min	34	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	5.4	%	ISO 527
Tensile Strain, break, 5 mm/min	21.8	%	ISO 527
Tensile Modulus, 1 mm/min	1980	MPa	ISO 527
Flexural Stress	67	MPa	ISO 178
Flexural Modulus, 2 mm/min	2000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	181	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	17	cm-kgf/cm	ASTM D 256
Multiaxial Impact	291	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	340	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	110	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	12	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	141	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	130	°C	ASTM D 648



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THERMAL			
CTE, -30°C to 30°C, flow	7.7E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	7.7E-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	124	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.29	-	ASTM D 792
Density	1.29	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.6 - 0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 - 0.9	%	ASTM D 955
Wear Factor Washer	15	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Wear Factor Ring	0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.38	-	ASTM D 3702 Modified
Static COF	0.23	-	ASTM D 3702 Modified
Moisture Absorption (23°C / 50% RH)	0.15	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL 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