



LNP™ LUBRICOMP™ Compound DL003E

Americas: COMMERCIAL

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

Product reorder name: DL003E

LNP LUBRICOMP™ DL003E is a compound based on Polycarbonate resin containing 15% PTFE. Added features of this material include: Easy Molding, Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	450	kgf/cm ²	ASTM D 638
Tensile Stress, break	510	kgf/cm ²	ASTM D 638
Tensile Strain, yield	5.6	%	ASTM D 638
Tensile Strain, break	25.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	22200	kgf/cm ²	ASTM D 638
Flexural Stress	840	kgf/cm ²	ASTM D 790
Flexural Modulus	23500	kgf/cm ²	ASTM D 790
Tensile Stress, yield	54	MPa	ISO 527
Tensile Stress, break	50	MPa	ISO 527
Tensile Strain, yield	5.5	%	ISO 527
Tensile Strain, break	9.6	%	ISO 527
Tensile Modulus, 1 mm/min	2200	MPa	ISO 527
Flexural Stress	84	MPa	ISO 178
Flexural Modulus	2300	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	217	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	14	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	100	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	16	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	116	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.38E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.55E-05	1/°C	ASTM E 831



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, flow	7.4E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.5E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	138	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	128	°C	ISO 75/Af
PHYSICAL			
Density	1.28	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.8 - 0.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.8 - 0.9	%	ASTM D 955
Wear Factor Washer	60	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.18	-	ASTM D 3702 Modified
Static COF	0.07	-	ASTM D 3702 Modified
Density	1.29	g/cm ³	ISO 1183



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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