



LNP™ LUBRICOMP™ Compound DL0029E

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound DL-4020 FR

Product reorder name: DL0029E

LNP LUBRICOMP™ DL0029E is a compound based on Polycarbonate resin containing 10% PTFE. Added features of this material include: Wear Resistant, Flame Retardant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	520	kgf/cm ²	ASTM D 638
Tensile Stress, yld, Type I, 5 mm/min	570	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	470	kgf/cm ²	ASTM D 638
Tensile Strain, break	26	%	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	5.7	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	33	%	ASTM D 638
Tensile Modulus, 50 mm/min	22900	kgf/cm ²	ASTM D 638
Flexural Stress	870	kgf/cm ²	ASTM D 790
Flexural Modulus	23900	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	23700	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	205	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	12	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	474	cm-kgf	ASTM D 3763
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
CTE, -30°C to 30°C, flow	7.1E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	7.5E-05	1/°C	ASTM D 696
PHYSICAL			
Specific Gravity	1.31	-	ASTM D 792
Density	1.31	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.01	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.6 - 0.8	%	ASTM D 955



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PHYSICAL			
Mold Shrinkage, xflow, 24 hrs (5)	0.8 - 1	%	ASTM D 955
Wear Factor Washer	55	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.2	-	ASTM D 3702 Modified
Static COF	0.14	-	ASTM D 3702 Modified
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating (3)	1.8	mm	UL 94



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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