



LNP™ LUBRICOMP™ Compound DL0049EF

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound DL-4040 FR

Product reorder name: DL0049EF

LNP™ LUBRICOMP™ DL0049EF is a compound based on Polycarbonate resin containing 20% PTFE, Flame Retardant. Added features of this material include: Wear Resistant, Flame Retardant

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	480	kgf/cm ²	ASTM D 638
Tensile Stress, break	410	kgf/cm ²	ASTM D 638
Tensile Strain, yield	5.2	%	ASTM D 638
Tensile Strain, break	23.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	21000	kgf/cm ²	ASTM D 638
Flexural Modulus	21000	kgf/cm ²	ASTM D 790
Tensile Stress, yield	49	MPa	ISO 527
Tensile Stress, break	43	MPa	ISO 527
Tensile Strain, yield	5.4	%	ISO 527
Tensile Strain, break	26.1	%	ISO 527
Tensile Modulus, 1 mm/min	2090	MPa	ISO 527
Flexural Stress	70	MPa	ISO 178
Flexural Modulus	2200	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	160	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	12	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	326	cm-kgf	ASTM D 3763
Multiaxial Impact	268	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	118	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	137	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	123	°C	ASTM D 648



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THERMAL			
CTE, -40°C to 40°C, flow	7.56E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.92E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.6E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.8E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	136	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	126	°C	ISO 75/Af
PHYSICAL			
Density	1.35	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.5 - 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.8 - 1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.61	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.85	%	ISO 294
Wear Factor Washer	8	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.32	-	ASTM D 3702 Modified
Static COF	0.19	-	ASTM D 3702 Modified
Density	1.35	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