



LNP™ LUBRICOMP™ Compound DFL36G

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound DFL-4036 MG

Product reorder name: DFL36G

LNP™ LUBRICOMP™ DFL36G is a compound based on Polycarbonate resin containing 30% Mixed Glass, 15% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	930	kgf/cm ²	ASTM D 638
Tensile Stress, break	880	kgf/cm ²	ASTM D 638
Tensile Strain, yield	2.3	%	ASTM D 638
Tensile Strain, break	2.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	77300	kgf/cm ²	ASTM D 638
Flexural Stress	1400	kgf/cm ²	ASTM D 790
Flexural Modulus	70300	kgf/cm ²	ASTM D 790
Tensile Stress, yield	90	MPa	ISO 527
Tensile Stress, break	90	MPa	ISO 527
Tensile Strain, yield	2.3	%	ISO 527
Tensile Strain, break	2.3	%	ISO 527
Tensile Modulus, 1 mm/min	7280	MPa	ISO 527
Flexural Stress	3	MPa	ISO 178
Flexural Modulus	7000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	13	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	57	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	188	cm-kgf	ASTM D 3763
Multiaxial Impact	60	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	37	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	143	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	138	°C	ASTM D 648
CTE, -40°C to 40°C, flow	5.76E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.88E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	5.8E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.8E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	144	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	140	°C	ISO 75/Af
PHYSICAL			
Density	1.55	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.24	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.43	%	ISO 294
Wear Factor Washer	41	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.49	-	ASTM D 3702 Modified
Static COF	0.41	-	ASTM D 3702 Modified
Density	1.54	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	305 - 325	°C
Front - Zone 3 Temperature	320 - 330	°C
Middle - Zone 2 Temperature	310 - 320	°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