



LNP™ LUBRICOMP™ Compound DBL32

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound DBL-4032

Product reorder name: DBL32

LNP™ LUBRICOMP™ DBL32 is a compound based on Polycarbonate resin containing 10% Glass Beads and 15% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	430	kgf/cm ²	ASTM D 638
Tensile Stress, break	390	kgf/cm ²	ASTM D 638
Tensile Stress, yld, Type I, 5 mm/min	420	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	380	kgf/cm ²	ASTM D 638
Tensile Strain, yield	5.4	%	ASTM D 638
Tensile Strain, break	22.3	%	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	5.4	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	22.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	21000	kgf/cm ²	ASTM D 638
Flexural Modulus	28100	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	28000	kgf/cm ²	ASTM D 790
Tensile Stress, yield	43	MPa	ISO 527
Tensile Stress, break	38	MPa	ISO 527
Tensile Stress, yield, 5 mm/min	43	MPa	ISO 527
Tensile Stress, break, 5 mm/min	38	MPa	ISO 527
Tensile Strain, yield	5.1	%	ISO 527
Tensile Strain, break	18.2	%	ISO 527
Tensile Strain, yield, 5 mm/min	5.1	%	ISO 527
Tensile Strain, break, 5 mm/min	18.2	%	ISO 527
Tensile Modulus, 1 mm/min	2580	MPa	ISO 527
Flexural Stress	69	MPa	ISO 178



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MECHANICAL			
Flexural Modulus	2400	MPa	ISO 178
Flexural Modulus, 2 mm/min	2400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	153	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	19	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	321	cm-kgf	ASTM D 3763
Multiaxial Impact	263	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	105	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	14	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	142	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	135	°C	ASTM D 648
CTE, -40°C to 40°C, flow	5.4E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.94E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	5.3E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	139	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	135	°C	ISO 75/Af
PHYSICAL			
Density	1.37	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.7 - 0.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.9 - 1.1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.8	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.96	%	ISO 294
Wear Factor Washer	139	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.41	-	ASTM D 3702 Modified



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PHYSICAL			
Static COF	0.48	-	ASTM D 3702 Modified
Density	1.37	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