



LNP™ LUBRICOMP™ Compound DFP32

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound DFL-4532

Product reorder name: DFP32

LNP LUBRICOMP DFP32 is a compound based on Polycarbonate resin containing 10% Glass Fiber, 15% PTFE/Silicone. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	750	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	740	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	3.3	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3.6	%	ASTM D 638
Tensile Modulus, 5 mm/min	42600	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1280	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1250	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	40800	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	71	MPa	ISO 527
Tensile Strain, break, 5 mm/min	3.4	%	ISO 527
Tensile Modulus, 1 mm/min	4170	MPa	ISO 527
Flexural Stress	121	MPa	ISO 178
Flexural Modulus, 2 mm/min	3990	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	64	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	16	cm-kgf/cm	ASTM D 256
Multiaxial Impact	70	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	224	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	37	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	11	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	146	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	141	°C	ASTM D 648



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THERMAL			
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	145	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	140	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.35	-	ASTM D 792
Density	1.34	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)	0.6 - 0.8	%	ASTM D 955



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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