



LNP™ LUBRICOMP™ Compound DX96651

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound PDX-D-96651 SF

Product reorder name: DX96651

LNP LUBRICOMP™ DX96651 is a compound based on Polycarbonate resin containing Proprietary Filler(s). Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	490	kgf/cm ²	ASTM D 638
Tensile Stress, break	590	kgf/cm ²	ASTM D 638
Tensile Modulus, 50 mm/min	22400	kgf/cm ²	ASTM D 638
Flexural Stress	950	kgf/cm ²	ASTM D 790
Flexural Modulus	25300	kgf/cm ²	ASTM D 790
Tensile Stress, yield	55	MPa	ISO 527
Tensile Stress, break	46	MPa	ISO 527
Tensile Modulus, 1 mm/min	2400	MPa	ISO 527
Flexural Stress	90	MPa	ISO 178
Flexural Modulus	2600	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	10	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	418	cm-kgf	ASTM D 3763
Multiaxial Impact	1305	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	137	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	140	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	127	°C	ASTM D 648
CTE, -40°C to 40°C, flow	6.55E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.58E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	6.55E-05	1/°C	ISO 11359-2



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THERMAL			
CTE, -40°C to 40°C, xflow	6.6E-05	1/°C	ISO 11359-2
PHYSICAL			
Density	1.23	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.16	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.73	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.75	%	ISO 294
Density	1.23	g/cm ³	ISO 1183
FLAME CHARACTERISTICS			
UL Recognized, 94V-2 Flame Class Rating (3)	1.5	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