



LNP™ LUBRICOMP™ Compound DP0039EF

Asia Pacific: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound DP0039EF

Product reorder name: DP0039EF

LNP LUBRICOMP DP0039EF is a compound based on Polycarbonate resin containing Silicone, PTFE. Added features of this material include: Internally Lubricated.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	500	kgf/cm ²	ASTM D 638
Tensile Stress, break	400	kgf/cm ²	ASTM D 638
Tensile Strain, yield	5.5	%	ASTM D 638
Tensile Strain, break	14.7	%	ASTM D 638
Tensile Modulus, 5 mm/min	21600	kgf/cm ²	ASTM D 638
Flexural Stress	810	kgf/cm ²	ASTM D 790
Flexural Modulus	21800	kgf/cm ²	ASTM D 790
Tensile Stress, yield	50	MPa	ISO 527
Tensile Stress, break	39	MPa	ISO 527
Tensile Strain, yield	5.5	%	ISO 527
Tensile Strain, break	17.5	%	ISO 527
Tensile Modulus, 1 mm/min	2090	MPa	ISO 527
Flexural Stress	82	MPa	ISO 178
Flexural Modulus	2170	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	203	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	30	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	234	cm-kgf	ASTM D 3763
Multiaxial Impact	627	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	129	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	19	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2 mm	126	°C	ASTM D 648



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THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	127	°C	ISO 75/Af
PHYSICAL			
Density	1.31	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 1.5-3.2 mm (5)	0.68	%	SABIC Method
Mold Shrinkage, xflow, 1.5-3.2 mm (5)	0.67	%	SABIC Method
Melt Flow Rate, 300°C/2.16 kgf	18.1	g/10 min	ASTM D 1238
Wear Factor Washer	422	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.17	-	ASTM D 3702 Modified: Manual
Water Absorption, (23°C/sat)	0.05	%	ISO 62



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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