LNP™ LUBRICOMP™ Compound LL004C
Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound LL-4040 CCS
Product reorder name: LL004C

LNP LUBRICOMP LL004C is a compound based on Polyetheretherketone resin containing 20% PTFE. Added features of this material include: Wear Resistant, Clean Compounding System.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	750	kgf/cm²	ASTM D 638
Tensile Stress, break	710	kgf/cm²	ASTM D 638
Tensile Strain, yield	5.8	%	ASTM D 638
Tensile Strain, break	23.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	29500	kgf/cm²	ASTM D 638
Flexural Stress	1190	kgf/cm²	ASTM D 790
Flexural Modulus	30200	kgf/cm²	ASTM D 790
Tensile Stress, yield	73	MPa	ISO 527
Tensile Stress, break	69	MPa	ISO 527
Tensile Strain, yield	5	%	ISO 527
Tensile Strain, break	11.8	%	ISO 527
Tensile Modulus, 1 mm/min	3060	MPa	ISO 527
Flexural Stress	118	MPa	ISO 178
Flexural Modulus	3320	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	157	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	9	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	30	cm-kgf	ASTM D 3763
Multiaxial Impact	10	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	91	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
PHYSICAL			
Density	1.37	g/cm³	ASTM D 792

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(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Moisture Absorption, 50% RH, 24 hrs	0.06	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.85	%	ISO 294
Wear Factor Washer	128	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.52	-	ASTM D 3702 Modified
Static COF	0.43	-	ASTM D 3702 Modified
Density	1.37	g/cm³	ISO 1183

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	150	°C
Drying Time	4 - 6	hrs
Front - Zone 3 Temperature	380 - 400	°C
Middle - Zone 2 Temperature	380 - 400	°C
Rear - Zone 1 Temperature	370 - 380	°C
Mold Temperature	175 - 190	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm

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