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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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