



LNP™ LUBRICOMP™ Compound EX03599H

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound PDX-E-03599 EES HC

Product reorder name: EX03599H

LNP LUBRICOMP EX03599H is a compound based on Polyetherimide resin containing Proprietary Fillers. Added features of this material include: Healthcare, Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	1070	kgf/cm ²	ASTM D 638
Tensile Stress, break	900	kgf/cm ²	ASTM D 638
Tensile Strain, yield	7	%	ASTM D 638
Tensile Strain, break	27.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	34000	kgf/cm ²	ASTM D 638
Flexural Stress	1540	kgf/cm ²	ASTM D 790
Flexural Modulus	35500	kgf/cm ²	ASTM D 790
Tensile Stress, yield	106	MPa	ISO 527
Tensile Stress, break	98	MPa	ISO 527
Tensile Strain, yield	6.8	%	ISO 527
Tensile Strain, break	9.7	%	ISO 527
Tensile Modulus, 1 mm/min	3180	MPa	ISO 527
Flexural Stress	112	MPa	ISO 178
Flexural Modulus	3140	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	140	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	4	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	70	cm-kgf	ASTM D 3763
Multiaxial Impact	26	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	89	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	190	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, flow	4.32E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.14E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.39E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.19E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	187	°C	ISO 75/Af
PHYSICAL			
Density	1.28	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.72	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.78	%	ISO 294
Dynamic COF	0.43	-	ASTM D 3702 Modified
Static COF	0.45	-	ASTM D 3702 Modified
Density	1.28	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.25	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4 - 6	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	360 - 365	°C
Front - Zone 3 Temperature	365 - 375	°C
Middle - Zone 2 Temperature	355 - 365	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	120 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm