



LNP™ LUBRICOMP™ Compound KFL25

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound KFL-4025

Product reorder name: KFL25

LNP LUBRICOMP™ KFL25 is a compound based on Acetal Copolymer resin containing 25% Glass Fiber, 10% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	870	kgf/cm ²	ASTM D 638
Tensile Strain, break	1.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	104400	kgf/cm ²	ASTM D 638
Flexural Stress	1340	kgf/cm ²	ASTM D 790
Flexural Modulus	92800	kgf/cm ²	ASTM D 790
Tensile Stress, break	84	MPa	ISO 527
Tensile Strain, break	1.3	%	ISO 527
Tensile Modulus, 1 mm/min	9870	MPa	ISO 527
Flexural Stress	130	MPa	ISO 178
Flexural Modulus	9200	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	29	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	4	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	87	cm-kgf	ASTM D 3763
Multiaxial Impact	18	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	18	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	165	°C	ASTM D 648
CTE, -40°C to 40°C, flow	8.22E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.33E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	8.26E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.32E-05	1/°C	ISO 11359-2



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Density	1.65	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.19	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.5	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.96	%	ISO 294
Density	1.65	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	200 - 215	°C
Front - Zone 3 Temperature	210 - 220	°C
Middle - Zone 2 Temperature	195 - 205	°C
Rear - Zone 1 Temperature	175 - 190	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm