



LNP™ LUBRICOMP™ Compound WFP36

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound WFL-4536

Product reorder name: WFP36

LNP LUBRICOMP™ WFP36 is a compound based on PBT resin containing 30% Glass Fiber, 15% PTFE/Silicone. Added features of this material include: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1150	kgf/cm ²	ASTM D 638
Tensile Strain, break	2.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	104800	kgf/cm ²	ASTM D 638
Flexural Stress	1970	kgf/cm ²	ASTM D 790
Flexural Modulus	89100	kgf/cm ²	ASTM D 790
Tensile Stress, break	118	MPa	ISO 527
Tensile Strain, break	2.7	%	ISO 527
Tensile Modulus, 1 mm/min	11760	MPa	ISO 527
Flexural Stress	189	MPa	ISO 178
Flexural Modulus	9350	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	58	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	76	cm-kgf	ASTM D 3763
Multiaxial Impact	143	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	46	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	213	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	213	°C	ISO 75/Af
PHYSICAL			
Density	1.579	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.4	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ASTM D 955



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PHYSICAL			
Mold Shrinkage, xflow, 24 hrs (5)	0.5 - 1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.5 - 1	%	ISO 294
Wear Factor Washer	136	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.5	-	ASTM D 3702 Modified
Static COF	0.42	-	ASTM D 3702 Modified
Density	1.57	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	240 - 265	°C
Front - Zone 3 Temperature	260 - 270	°C
Middle - Zone 2 Temperature	245 - 255	°C
Rear - Zone 1 Temperature	220 - 230	°C
Mold Temperature	80 - 100	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm