



LNP™ LUBRICOMP™ Compound WFL34H

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound WFL-4034 HC

Product reorder name: WFL34H

LNP LUBRICOMP™ WFL34H is a compound based on PBT resin containing 20% Glass Fiber, 15% PTFE. Added features of this material include: Wear Resistant, Healthcare.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1250	kgf/cm ²	ASTM D 638
Tensile Stress, yld, Type I, 5 mm/min	1250	kgf/cm ²	ASTM D 638
Tensile Strain, break	2.8	%	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	89200	kgf/cm ²	ASTM D 638
Flexural Stress	1790	kgf/cm ²	ASTM D 790
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1800	kgf/cm ²	ASTM D 790
Flexural Modulus	69700	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	121	MPa	ISO 527
Tensile Stress, break, 50 mm/min	121	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	2.7	%	ISO 527
Tensile Strain, break, 50 mm/min	2.6	%	ISO 527
Tensile Modulus, 1 mm/min	8460	MPa	ISO 527
Flexural Stress	182	MPa	ISO 178
Flexural Modulus, 2 mm/min	7500	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	83	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	8	cm-kgf/cm	ASTM D 256
Multiaxial Impact	32	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	97	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*3 +23°C	46	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A



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THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	223	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	213	°C	ASTM D 648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	223	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	209	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.59	-	ASTM D 792
Density	1.59	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.05	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.4 - 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.9 - 2	%	ASTM D 955
Wear Factor Washer	35	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.47	-	ASTM D 3702 Modified
Static COF	0.46	-	ASTM D 3702 Modified
Moisture Absorption (23°C / 50% RH)	0.07	%	ISO 62



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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