



LNP™ LUBRICOMP™ Compound ICL34

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound ICL-4034

Product reorder name: ICL34

LNP LUBRICOMP ICL34 is a compound based on Nylon 6/12 containing 20% Carbon Fiber, 15% PTFE. Added features include: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	1850	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	1850	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.5	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	160500	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	2720	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2710	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	120300	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	177	MPa	ISO 527
Tensile Stress, break, 5 mm/min	177	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.3	%	ISO 527
Tensile Strain, break, 5 mm/min	2.3	%	ISO 527
Tensile Modulus, 1 mm/min	14770	MPa	ISO 527
Flexural Stress	253	MPa	ISO 178
Flexural Modulus, 2 mm/min	11960	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	84	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	9	cm-kgf/cm	ASTM D 256
Multiaxial Impact	27	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	87	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	51	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A



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THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	215	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	200	°C	ASTM D 648
CTE, -30°C to 30°C, flow	2.7E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	8.1E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	212	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	194	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.26	-	ASTM D 792
Density	1.25	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.15	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 - 1	%	ASTM D 955
Wear Factor Washer	14	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Wear Factor Ring	0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.48	-	ASTM D 3702 Modified
Static COF	0.33	-	ASTM D 3702 Modified
Moisture Absorption (23°C / 50% RH)	0.23	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.12 - 0.2	%
Melt Temperature	270 - 275	°C
Front - Zone 3 Temperature	270 - 280	°C
Middle - Zone 2 Temperature	260 - 270	°C
Rear - Zone 1 Temperature	255 - 265	°C
Mold Temperature	65 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm