



LNP™ LUBRICOMP™ Compound ZX05506

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound ZML-4334

Product reorder name: ZX05506

LNP LUBRICOMP™ ZX05506 is a compound based on PPE+PS Blend resin containing 15% Graphite Powder, 20% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	530	kgf/cm ²	ASTM D 638
Tensile Strain, break	2.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	49900	kgf/cm ²	ASTM D 638
Flexural Stress	1010	kgf/cm ²	ASTM D 790
Flexural Modulus	50600	kgf/cm ²	ASTM D 790
Tensile Stress, break	50	MPa	ISO 527
Tensile Strain, break	2.5	%	ISO 527
Tensile Modulus, 1 mm/min	4910	MPa	ISO 527
Flexural Stress	94	MPa	ISO 178
Flexural Modulus	5370	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	17	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	38	cm-kgf	ASTM D 3763
Multiaxial Impact	12	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	12	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	121	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	126	°C	ISO 75/Af
PHYSICAL			
Density	1.35	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5	%	ASTM D 955



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PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	0.5	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.54	%	ISO 294
Wear Factor Washer	174	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.34	-	ASTM D 3702 Modified
Static COF	0.34	-	ASTM D 3702 Modified
Density	1.35	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.05	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Melt Temperature	300 - 305	°C
Front - Zone 3 Temperature	300 - 310	°C
Middle - Zone 2 Temperature	290 - 300	°C
Rear - Zone 1 Temperature	275 - 290	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm