



LNP™ LUBRICOMP™ Compound CZL36

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound PDX-C-01818

Product reorder name: CZL36

LNP™ LUBRICOMP™ CZL36 is a compound based on Polystyrene resin containing 30% Milled Glass and 15% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	250	kgf/cm ²	ASTM D 638
Tensile Stress, break	240	kgf/cm ²	ASTM D 638
Tensile Strain, yield	1.7	%	ASTM D 638
Tensile Strain, break	2.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	26000	kgf/cm ²	ASTM D 638
Flexural Stress	530	kgf/cm ²	ASTM D 790
Flexural Modulus	49900	kgf/cm ²	ASTM D 790
Tensile Stress, yield	22	MPa	ISO 527
Tensile Stress, break	21	MPa	ISO 527
Tensile Strain, yield	1.6	%	ISO 527
Tensile Strain, break	3.5	%	ISO 527
Tensile Modulus, 1 mm/min	3880	MPa	ISO 527
Flexural Stress	49	MPa	ISO 178
Flexural Modulus	5110	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	11	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	29	cm-kgf	ASTM D 3763
Multiaxial Impact	9	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	7	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	83	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, flow	6.49E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.74E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	6.5E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.75E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	83	°C	ISO 75/Af
PHYSICAL			
Density	1.52	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.03	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.3 - 0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.24 - 0.26	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.31 - 0.37	%	ISO 294
Density	1.52	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.09	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	250	°C
Front - Zone 3 Temperature	265 - 275	°C
Middle - Zone 2 Temperature	245 - 255	°C
Rear - Zone 1 Temperature	220 - 230	°C
Mold Temperature	40 - 65	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm