

# LNP\* Lubricomp\* Compound CZL36

**Americas: COMMERCIAL** 

## Also known as: PDX-C-01818 Product Reorder Name: CZL36

LNP LUBRICOMP\* CZL36 is a compound based on Polystyrene resin containing Proprietary Filler(s). Added features of this material include: Internally Lubricated.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield	24	MPa	ASTM D 638
Tensile Stress, break	24	MPa	ASTM D 638
Tensile Strain, yield	1.7	%	ASTM D 638
Tensile Strain, break	2.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	2550	MPa	ASTM D 638
Flexural Stress	52	MPa	ASTM D 790
Flexural Modulus	4890	MPa	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
ІМРАСТ	Value	Unit	Standard
Izod Impact, unnotched, 23°C	117	J/m	ASTM D 4812
Izod Impact, notched, 23°C	26	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	2	J	ASTM D 3763
Multiaxial Impact	0	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	7	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	83	°C	ASTM D 648
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	Value	Unit	Standard
Density	1.52	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.03	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.3 - 0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.24 - 0.26	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.31 - 0.37	%	ISO 294
Density	1.52	g/cm <sup>3</sup>	ISO 1183

Moisture Absorption (23°C / 50% RH)	0.09	%	ISO 62	
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Source GMD, last updated:09/29/2004

#### Processing

Value	Unit
80	°C
4	hrs
250	°C
265 - 275	°C
245 - 255	°C
220 - 230	°C
40 - 65	°C
0.2 - 0.3	MPa
30 - 60	rpm
	80   4   250   265 - 275   245 - 255   220 - 230   40 - 65   0.2 - 0.3

Source GMD, last updated:09/29/2004

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

### PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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