LNP™ LUBRICOMP™ COMPOUND CZL36

PDX-C-01818

DESCRIPTION

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 PROPERTY VALUES

Revision 20191211

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
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
IMPACT			
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
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			
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			
Density	1.52	g/cm³	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

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.52	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.09	%	ISO 62
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	

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