

LNP™ LUBRICOMP™ COMPOUND DEL36P

DCL-4036 EP
REGION EUROPE

DESCRIPTION

LNP* LUBRICOMP* DEL36P is a compound based on Polycarbonate resin containing 30% Carbon Fiber, 15% PTFE. Added features include: Internally Lubricated, Exceptional Processing.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 5 mm/min	148	MPa	ISO 527
Tensile Stress, break, 5 mm/min	148	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.3	%	ISO 527
Tensile Strain, break, 5 mm/min	1.5	%	ISO 527
Tensile Modulus, 1 mm/min	22100	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	179	MPa	ISO 178
Flexural Stress, break, 2 mm/min	177	MPa	ISO 178
Flexural Strain, break, 2 mm/min	1.5	%	ISO 178
Flexural Modulus, 2 mm/min	15400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	20	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	2.6E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	5.3E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	136	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	130	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow (5)	0.1 – 0.3	%	SABIC method
Wear Factor Washer	9	10 ⁻⁴ -10 in ³ -min/ft-lb-hr	ASTM D 3702 Modified: Instr.
Dynamic COF	0.55	-	ASTM D 3702 Modified: Instr.
Static COF	0.66	-	ASTM D 3702 Modified: Instr.
Density	1.42	g/cm ³	ISO 1183

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Water Absorption, 23°C/24hrs	0.1	%	ISO 62-1
ELECTRICAL			
Surface Resistivity	1.E+02 – 1.E+04	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	305 – 325	°C	
Front - Zone 3 Temperature	320 – 330	°C	
Middle - Zone 2 Temperature	310 – 320	°C	
Rear - Zone 1 Temperature	295 – 305	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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