LNP™ LUBRICOMP™ COMPOUND DFL36

DFL-4036
REGION EUROPE

DESCRIPTION

LNP* LUBRICOMP* DFL36 is a compound based on Polycarbonate resin containing 30% Glass Fiber, 15% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break, 5 mm/min	120	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.7	%	ISO 527
Flexural Stress, yield, 2 mm/min	199	MPa	ISO 178
Flexural Strain, break, 2 mm/min	3.1	%	ISO 178
Flexural Modulus, 2 mm/min	8600	MPa	ISO 178
Flexural Strain, break, 2 mm/min, 60°C	3.1	%	ISO 178
Flexural Strain, break, 2 mm/min, 100°C	3.5	%	ISO 178
Flexural Strain, break, 2 mm/min, 120°C	3.8	%	ISO 178
Flexural Stress, yield, 2 mm/min, 60°C	172	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 100°C	136	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 120°C	114	MPa	ISO 178
Flexural Modulus, 2 mm/min, 60°C	8400	MPa	ISO 178
Flexural Modulus, 2 mm/min, 100°C	8100	MPa	ISO 178
Flexural Modulus, 2 mm/min, 120°C	7500	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	55	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	16	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	2.4E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	7.6E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	130	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage on Tensile Bar, flow	0.1 – 0.3	%	SABIC method
Wear Factor Washer	22	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.46	-	ASTM D 3702 Modified: Manual
Static COF	0.41	-	ASTM D 3702 Modified: Manual
Density	1.54	g/cm³	ISO 1183
Melt Volume Rate, MVR at 300°C/5.0 kg	8 – 12	cm³/10 min	ISO 1133
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E45329-101344594	-	-
UL Recognized, 94V-1 Flame Class Rating	≥3	mm	UL 94
INJECTION MOLDING			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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