

LNPTM LUBRICOMPTM COMPOUND DFL36

DFL-4036 REGION AMERICAS

DESCRIPTION

LNP LUBRICOMP DFL36 compound is based on Polycarbonate (PC) resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant, High stiffness/Strength
Fillers	Glass Fiber, PTFE
Polymer Types	Polycarbonate (PC)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

PROPERTIES TYPICAL VALUES UNITS **TEST METHODS** MECHANICAL⁽¹⁾ 123 MPa Tensile Stress, yield ASTM D638 Tensile Stress, break 123 MPa ASTM D638 Tensile Strain, yield 2.6 ASTM D638 % Tensile Strain, break 2.8 % ASTM D638 Tensile Modulus, 5 mm/min 9580 MPa ASTM D638 Flexural Stress 186 MPa ASTM D790 8610 ASTM D790 Flexural Modulus MPa Tensile Stress, yield 118 MPa ISO 527 Tensile Stress, break 118 MPa ISO 527 ISO 527 Tensile Strain, yield 2.6 % Tensile Strain, break 2.7 % ISO 527 9080 MPa Tensile Modulus, 1 mm/min ISO 527 Flexural Stress 185 MPa ISO 178 Flexural Modulus 8340 MPa ISO 178 IMPACT (1) Izod Impact, unnotched, 23°C 923 ASTM D4812 J/m Izod Impact, notched, 23°C 197 ASTM D256 J/m Izod Impact, unnotched 80*10*4 +23°C 55 kJ/m² ISO 180/1U ISO 180/1A Izod Impact, notched 80*10*4 +23°C 16 kJ/m²

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CHEMISTRY THAT MATTERS

Revision 20231109



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
THERMAL ⁽¹⁾			
HDT, 1.82 MPa, 3.2mm, unannealed	143	°C	ASTM D648
PHYSICAL ⁽¹⁾			
Density	1.54	g/cm³	ASTM D792
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.2 – 0.3	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.5	%	ASTM D955
Wear Factor Washer	22	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.46		ASTM D3702 Modified: Manual
Static COF	0.41		ASTM D3702 Modified: Manual
FLAME CHARACTERISTICS ⁽³⁾			
UL Yellow Card Link	E121562-101344609	-	
UL Recognized, 94V-1 Flame Class Rating	≥3	mm	UL 94
INJECTION MOLDING (4)			
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) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) 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.

(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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