LNP™ LUBRICOMP™ Compound MFL36S

MFXL-4036 HS
REGION EUROPE

DESCRIPTION

LNP LUBRICOMP MFL36S compound is based on Polypropylene (PP) resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Heat Stabilized, Wear Resistant.

GENERAL INFORMATION	
Features	Heat Stabilized, Wear resistant, High stiffness/Strength
Fillers	Glass Fiber, PTFE
Polymer Types	Polypropylene, Unspecified (PP, Unspecified)
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

Revision 20260904

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, break, 5 mm/min	85	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.8	%	ISO 527
Tensile Modulus, 1 mm/min	6900	MPa	ISO 527
Flexural Stress, break, 2 mm/min	123	MPa	ISO 178
Flexural Modulus, 2 mm/min	6400	MPa	ISO 178
IMPACT [1]			
Izod impact, notched			
80*10*4 +23°C	10	kJ/m²	ISO 180/1A
80*10*4 -40°C	12	kJ/m²	ISO 180/1A
Izod Impact, Unnotched			
80*10*4 +23°C	40	kJ/m²	ISO 180/1U
80*10*4 -40°C	50	kJ/m²	ISO 180/1U
THERMAL [1]			
CTE, 23°C to 60°C, flow	3.E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.17E-06	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	157	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	140	°C	ISO 75/Af
PHYSICAL [1]			
Mold Shrinkage, flow [2]	0.1 – 0.3	%	SABIC method

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.26	g/cm³	ISO 1183
Water Absorption, (23°C/24hrs)	0.04	%	ISO 62-1
INJECTION MOLDING [3]			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Melt Temperature	225 – 250	°C	
Front - Zone 3 Temperature	240 – 250	°C	
Middle - Zone 2 Temperature	215 – 225	°C	
Rear - Zone 1 Temperature	195 – 205	°C	
Mold Temperature	30 – 50	°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) 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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