

LNPTM LUBRICOMPTM COMPOUND SFL2A

SFL-402-10

DESCRIPTION

LNP LUBRICOMP SFL2A compound is based on Nylon 12 resin containing 50% glass fiber, 10% PTFE. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION

Features	Wear resistant, High stiffness/Strength
Fillers	Glass Fiber, PTFE
Polymer Types	Polyamide 12 (Nylon 12)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Under the Hood
Consumer	Home Appliances, Commercial Appliance
Electrical and Electronics	Electronic Components, Mobile Phone - Computer - Tablets

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL⁽¹⁾			
Tensile Stress, break	149	MPa	ASTM D638
Tensile Strain, break	3.5	%	ASTM D638
Tensile Modulus, 50 mm/min	16060	MPa	ASTM D638
Flexural Stress	241	MPa	ASTM D790
Flexural Modulus	13120	MPa	ASTM D790
IMPACT⁽¹⁾			
Izod Impact, unnotched, 23°C	907	J/m	ASTM D4812
Izod Impact, notched, 23°C	112	J/m	ASTM D256
 THERMAL⁽¹⁾			
HDT, 1.82 MPa, 3.2mm, unannealed	174	°C	ASTM D648
PHYSICAL⁽¹⁾			
Density	1.64	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.6	%	ASTM D570
INJECTION MOLDING⁽²⁾			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.12 – 0.2	%	
Melt Temperature	225 – 240	°C	
Front - Zone 3 Temperature	225 – 240	°C	
Middle - Zone 2 Temperature	220 – 230	°C	
Rear - Zone 1 Temperature	215 – 225	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Temperature	70 – 80	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	