

LNPTM LUBRICOMPTM COMPOUND RFN16

RFL-4216

REGION AMERICAS

DESCRIPTION

LNP LUBRICOMP RFN16 compound is based on Nylon 6/6 resin containing 30% glass fiber and Molybdenum diSulfide (MoS2). Added features of this grade include: Wear Resistant.

GENERAL INFORMATION

Features	Wear resistant, High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Fiber, Molybdenum
Polymer Types	Polyamide 66 (Nylon 66)
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⁾			
Tensile Stress, break	155	MPa	ASTM D638
Tensile Strain, break	2.9	%	ASTM D638
Tensile Modulus, 50 mm/min	9560	MPa	ASTM D638
Flexural Stress	206	MPa	ASTM D790
Flexural Modulus	7130	MPa	ASTM D790
IMPACT⁽¹⁾			
Izod Impact, unnotched, 23°C	1004	J/m	ASTM D4812
Izod Impact, notched, 23°C	112	J/m	ASTM D256
THERMAL⁽¹⁾			
HDT, 1.82 MPa, 3.2mm, unannealed	205	°C	ASTM D648
PHYSICAL⁽¹⁾			
Density	1.41	g/cm ³	ASTM D792
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.3	%	ASTM D955
FLAME CHARACTERISTICS⁽³⁾			
UL Yellow Card Link	E121562-101281622	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
INJECTION MOLDING⁽⁴⁾			
Drying Temperature	80	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time	4	Hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	280 – 305	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	280 – 295	°C	
Rear - Zone 1 Temperature	265 – 275	°C	
Mold Temperature	95 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	