LNP™ LUBRICOMP™ COMPOUND QFP36

QFL-4536

DESCRIPTION

LNP LUBRICOMP QFP36 compound is based on Nylon 6/10 resin containing 30% glass fiber, 15% PTFE/silicone. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant, High stiffness/Strength
Fillers	Glass Fiber, PTFE/Silicone
Polymer Types	Polyamide 610 (Nylon 610)
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 Modulus, 1 mm/min	8100	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3	%	ISO 527
Tensile Stress, yield, 5 mm/min	118	MPa	ISO 527
Flexural Modulus, 2 mm/min	6200	MPa	ISO 178
Flexural Stress, yield, 2 mm/min	165	MPa	ISO 178
Tensile Stress, break	136	MPa	ASTM D638
Tensile Strain, break	2.8	%	ASTM D638
Flexural Stress	212	MPa	ASTM D790
Flexural Modulus	8610	MPa	ASTM D790
IMPACT [1]			
Izod Impact, unnotched, 23°C	907	J/m	ASTM D4812
Izod Impact, notched, 23°C	90	J/m	ASTM D256
THERMAL [1]			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	198	°C	ISO 75/Af
CTE, 23°C to 60°C, flow	2.3E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.0E-04	1/°C	ISO 11359-2
HDT, 1.82 MPa, 3.2mm, unannealed	201	°C	ASTM D648
Relative Temp Index, Elec [2]	65	°C	UL 746B
Relative Temp Index, Mech w/impact [2]	65	°C	UL 746B
Relative Temp Index, Mech w/o impact [2]	65	°C	UL 746B

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+852-6957-5415 (HongKong)

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL [1]			
Density	1.41	g/cm³	ISO 1183
Density	1.44	g/cm³	ASTM D792
Mold Shrinkage, flow, 24 hrs [3]	0.2	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs [3]	0.9	%	ASTM D955
FLAME CHARACTERISTICS [2]			
UL Yellow Card Link	E121562-101344702	-	-
UL Yellow Card Link 2	E207780-103093577	-	-
UL Yellow Card Link 3	E45329-101344685	-	-
UL Recognized, 94HB Flame Class Rating	0.75	mm	UL 94
INJECTION MOLDING [4]			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.12 – 0.2	%	
Melt Temperature	270 – 275	°C	
Front - Zone 3 Temperature	270 – 280	°C	
Middle - Zone 2 Temperature	260 – 270	°C	
Rear - Zone 1 Temperature	250 – 260	°C	
Mold Temperature	80 – 95	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	