

FORMPOLY® N66GP30U

(Unfilled Nylon 66- UL Certified Grade)

GENERAL

FPL offers a wide range of Nylon66 grades from unfilled, glass fibre reinforced, mineral reinforced to flame retardant including **FORMPOLY® N66GP30U** which is easy flow and low melt viscosity primarily intended for Injection moulding.

FORMPOLY® N66GP30U

UL 94 Certified
Good Chemical resistance
Available in variable colours with UL Recognition
Easy flow and Fast solidification.
Fine crystalline structure

PRE-DRYING

FPL grades can normally be taken for direct processing. However, in case the material is exposed to atmosphere, it is advisable to pre-dry the material at 100°C for 2 to 3 hours for good surface finish.

PACKING

FORMPOLY® N66GP30U is supplied in 25 Kgs. dry, ready to mould, in sealed bags to prevent the uptake of moisture.

APPLICATION

Switch parts
Motor insulation parts
Terminals/Connectors
Electrical Knobs
Fuse Box

Property	ASTM Method	Unit	Value
Tensile Stress	D638	MPa	80
Elongation at Break	D638	%	40
Tensile Modulus	D638	Mpa	3000
Izod Impact Strength	D256	J/m	45
Notched			
Heat Deflection Temp			
- at 4.6 Kg / Cm2 load	D648	°C	200
- at 18.5 Kg / Cm2 load		°C	75
Specific Gravity	D792	-	1.14
Volume Resistivity	D-257	Ohms-cm	10 ^{EL5}
Surface Resistivity	D-257	Ohms	10 ^{EL4}
Flammability @ 0.9mm	UL 94	V2	V2

Conditioned test specimen. All results are measured under Dry-as-moulded natural test specimen.

Pigmented color would record lower mechanical properties as permitted by ASTM D-4066

The information present here is for general guidance. It is given in good faith but no warrant is attached

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ISO 9001:2015, IATF 16949: 2009 & ISO 14001: 2015 Certified Firm





Component - Plastics
File Number: E339825

FORMULATED POLYMERS LTD
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FORMPOLY: N66GP30 U
Polyamide 66 (PA66), pellets

Flammability	Value	Test Method
Flame Rating		
0.800 mm, ALL	HB	UL 94
1.50 mm, ALL	HB	UL 94
3.00 mm, ALL	HB	UL 94
0.900 mm, NC	V-2	UL 94 IEC 60695-11-10, -20
1.50 mm, NC	V-2	UL 94 IEC 60695-11-10, -20
3.00 mm, NC	V-2	UL 94 IEC 60695-11-10, -20
3.00 mm, ALL	HB40	IEC 60695-11-10, -20
0.800 mm, ALL	HB75	IEC 60695-11-10, -20
1.50 mm, ALL	HB75	IEC 60695-11-10, -20
Electrical	Value	Test Method
Hot-wire Ignition (HWI) (3.00 mm)	PLC 2	UL 746
High Amp Arc Ignition (HAI) (3.00 mm)	PLC 0	UL 746
Comparative Tracking Index (CTI)	PLC 0	UL 746
Arc Resistance	PLC 4	ASTM D495
Thermal	Value	Test Method
RTI Elec		UL 746
0.800 mm	65.0 °C	
0.900 mm	65.0 °C	
1.50 mm	65.0 °C	
3.00 mm	65.0 °C	
RTI Imp		UL 746
0.800 mm	65.0 °C	
0.900 mm	65.0 °C	
1.50 mm	65.0 °C	
3.00 mm	65.0 °C	
RTI Str		UL 746
0.800 mm	65.0 °C	
0.900 mm	65.0 °C	
1.50 mm	65.0 °C	
3.00 mm	65.0 °C	