

# FORMPOLY® SN6MG20V2 (20% M Glass Reinforced Nylon6)

## GENERAL

FPL offers a range of Nylon 6 grades from unfilled, glass fibre reinforced, mineral reinforced to flame retardant including **FORMPOLY® SN6MG20V2**, which is M Glass reinforced flame retardant grade.

## FORMPOLY® SN6MG20V2

Red Phosphorus based Flame retardant grade  
Meeting UL-94 V2 rating  
UV Stabilized  
Good Thermal and Mechanical properties

## 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 90°C for 2 to 3 hours for good surface finish.

## PACKING

**FORMPOLY® SN6MG20V2** is supplied in 25 Kg dry, ready to mould, in sealed bags to prevent the uptake of moisture.

## APPLICATION

Instrument Housing  
Switch parts  
Bush holder  
Connectors  
PCB frame

Property	ASTM Method	Unit	Value
Tensile Stress	D638	MPa	75
Elongation at Break	D638	%	2.5
Flexural Stress	D790	MPa	140
Flexural Modulus	D790	MPa	5500
Izod Impact Strength Notched	D256	kg.cm/cm	4
Heat Deflection Temp			
- at 4.6 kg / cm <sup>2</sup> load	D648	°C	215
- at 18.5 kg / cm <sup>2</sup> load	D648	°C	180
Specific Gravity	D792	-	1.33
Shrinkage ,flow	D955	%	0.4- 0.6
Flammability	UL-94	-	V2
GWFI	IEC 60695	C	960
CTI	IEC 60112	V	375

Conditioned test specimen. All results are measured under Dry-as-moulded natural test specimen  
Coloured grades would record slightly 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

## FORMULATED POLYMERS LIMITED

Manufacturers of Engineering Plastics Compounds

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



## PROCESS PARAMETERS SUGGESTED

PROCESSING PARAMETERS	FORMPOLY® SN6MG20V2
Drying Temperature	80°C
Drying time	4hrs
Feed Zone Temp	230-240°C
Compression Zone Temp	250-260°C
Metering Zone Temp	250-270°C
Nozzle Temp	250-260°C
Melt Temp	250-270°C
Mould temp	50-90°C

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