

FORMPOLY® SN6GF20V2 (Glass Reinforced Nylon6- FR)

GENERAL

FPL offers a range of Nylon 6 grades from unfilled, glass fibre reinforced, mineral reinforced to flame retardant including **FORMPOLY® SN6GF20V2**, which is Glass reinforced flame retardant grade .

FORMPOLY® SN6GF20V2

Halogen Free
Red Phosphorous Free
Meeting UL-94 V2 rating
Lubricated easy mouldable
Good Electrical 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® SN6GF20V2 is supplied in 25 Kg dry, ready to mould, in sealed bags to prevent the uptake of moisture.

APPLICATION

MCB
Switch parts
Bush holder
Connectors
PCB frame

Property	ASTM Method	Unit	Value
Tensile Stress	D638	MPa	85
Elongation at Break	D638	%	4.5
Flexural Stress	D790	MPa	120
Flexural Modulus	D790	MPa	4500
Izod Impact Strength Notched	D256	kg.cm/cm	6.5
Heat Deflection Temp			
- at 4.6 kg / cm ² load	D648	°C	215
- at 18.5 kg / cm ² load	D648	°C	180
Specific Gravity	D792	-	1.26
Shrinkage ,flow	D955	%	0.8-1.2
Flammability @0.8	UL-94	-	V2
GWFI @2mm	IEC 60695	C	960

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

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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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