

FORMPOLY® PPSMF70

(70% Glass and Mineral filled PPS)

GENERAL

FPL offers a range of Engineering Plastic grades from unfilled, glass fibre reinforced to mineral reinforced for most demanding conditions and extreme requirements including **FORMPOLY® PPSMF70** which is Glass Fibre and Mineral Reinforced PPS with high modulus.

FORMPOLY® PPSMF70

Superior Strength and Modulus
Good Heat Resistance.
Inherent Flame Resistance
Excellent Electrical Properties
Excellent Dimensional Stability
Good Chemical Resistance

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 120°C for 4 to 5 hours for good surface finish.

PACKING

FORMPOLY® PPSMF70 is supplied in 25 Kg. dry, ready to mould, in sealed bags to prevent the uptake of moisture.

APPLICATION

Terminal Block
Connector
Relay Housing
Bobbin & Brush Holder
Halogen Bulb Holder
Hot Pan Handle

Property	ASTM Method	Unit	Value
Tensile Stress	D638	MPa	130
Elongation at Break	D638	%	<1
Flexural Stress	D790	MPa	190
Izod Impact Strength Notched	D256	kg.cm/ cm	6.5
Heat Deflection Temp - at 1.82 MPa load	D648	°C	>260
Specific Gravity	D792	-	1.91
Flammability	UL94	-	VO
Volume Resistivity	D257	Ohm.cm	10 ¹⁵
Shrinkage	D955	%	0.2-0.4
Water absorption at Equilibrium	D570	%	< 0.02

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

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PROCESS PARAMETERS	
Drying Temperature	120- 140°C
Drying Time	3- 6 hrs
Rear Temperature	290 - 300°C
Middle Temperature	330 - 340°C
Front Temperature	320 - 330°C
Nozzle Temperature	310 -320°C
Processing (Melt) Temp	290 - 300°C
Throat Temperature	60 – 80°C
Mold Temperature	130 - 150°C

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