

FORMPOLY® PPOFR90FH (Unfilled PPO-FR Grade)

GENERAL

FPL offers a range of Engineering Plastic grades from unfilled, glass fibre reinforced to flame retardant for most demanding conditions and extreme requirements including **FORMPOLY® PPOFR90FH**, which is unfilled PPO with flame retardant.

FORMPOLY® PPOFR90FH

Meeting UL 94 V0 Requirements
Free From Halogen & Bromine
Warpage Free
Easy flow and fast solidification
Easy processability
Low Moisture Absorption

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 80°C for 1 to 2 hours for good surface finish.

PACKING

FORMPOLY® PPOFR90FH is supplied in 25 Kg. dry, ready to mould, in sealed bags to prevent the uptake of moisture.

APPLICATION

Internal Switch Housing
Telecommunication Connectors
Deflection Yokes
Bobbins
TV parts

Property	ASTM Method	Unit	Value
Tensile Stress at yield	D638	MPa	75
Tensile Stress at break	D638	MPa	60
Elongation at Break	D638	%	15
Flexural Stress	D790	MPa	110
Flexural Modulus	D790	MPa	2700
Izod Impact Strength Notched	D256	kg.cm/ cm	17
Heat Deflection Temp			
- at 4.6 kg / cm ² load	D648	°C	135
- at 18.5 kg / cm ² load	D648	°C	120
Specific Gravity	D792	-	1.10
Vicat VST/B/50	D1525	°C	150
Flammability (at 0.8mm thick)	UL 94	-	V0
Dielectric strength	D149	kV/mm	18.5

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	
Drying Temperature	100 - 120°C
Drying Time	2- 4 hrs
Rear Temperature	250 - 270°C
Middle Temperature	270 - 290°C
Front Temperature	290 - 310°C
Nozzle Temperature	280 -300°C
Processing (Melt) Temp	280 - 300°C
Mold Temperature	80 - 120°C

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