

# FORMPOLY® PPOFR90VO (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® PPOFR90VO**, which is unfilled PPO with flame retardant.

### FORMPOLY® PPOFR90VO

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® PPOFR90VO** 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	D638	MPa	45
Elongation at Break	D638	%	30
Flexural Stress	D790	MPa	75
Flexural Modulus	D790	MPa	2800
Izod Impact Strength Notched	D256	kg.cm/cm	14
Heat Deflection Temp - at 18.5 kg / cm <sup>2</sup> load	D648	°C	90
Specific Gravity	D792	-	1.10
Vicat VST/B/50	D1525	°C	95
Flammability	UL 94	-	V0

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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