

# FORMPOLY® PPSGF40

## (40% Glass 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® PPSGF40**, which is Glass Fibre Reinforced PPS with high modulus.

### FORMPOLY® PPSGF40

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® PPSGF40** is supplied in 25 Kg. dry, ready to mould, in sealed bags to prevent the uptake of moisture.

### APPLICATION

Pump impellers  
Pump housings  
Relay Housing  
Bobbin & Brush Holder  
Halogen Bulb Holder

| Property                                   | ASTM Method | Unit     | Value   |
|--|-------------|----------|---------|
| Tensile Stress                             | D638        | MPa      | 145     |
| Elongation at Break                        | D638        | %        | <1      |
| Flexural Stress                            | D790        | MPa      | 200     |
| Izod Impact Strength Notched               | D256        | kg.cm/cm | 8       |
| Heat Deflection Temp<br>- at 1.82 MPa load | D648        | °C       | >260    |
| Specific Gravity                           | D792        | -        | 1.68    |
| Shrinkage                                  | D955        | %        | 0.3-0.5 |
| Water absorption at<br>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

Ph: +91-44-26811236,7:: Fax:2681 1275 E Mail: info@formulatedpolymers.com

URL: [www.formulatedpolymers.com](http://www.formulatedpolymers.com)

HO & Works: 59, SIDCO Industrial Estate, Thirumazhisai, Chennai - 600 124 India.



**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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