

# FORMPOLY POMGP90 (UNFILLED POM)

## GENERAL

FPL offers a range of Polypropylene grades from unfilled, glass fibre reinforced, mineral reinforced to flame retardant including **FORMPOLY POMGP90**, which is heat stabilized, lubricated unfilled POM with excellent mechanical / thermal properties and reduced shrinkage.

### FORMPOLY POMGP90

Smooth surface finish.  
Moderate flow and fast solidification.  
High heat resistance.  
Warpage free molding  
Easy processability  
UV stabilized  
Excellent dimensional stability.

## 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 2 to 3 hours for good surface finish.

## PACKING

**FORMPOLY POMGP90** is supplied in 25 Kg. dry, ready to mould, in sealed bags to prevent the uptake of moisture.

## APPLICATION

Spool gears  
Bushes  
Cams, Rollers

| Property                            | ASTM Method | Unit        | Value   |
|-------------------------------------|-------------|-------------|---------|
| Tensile Stress                      | D638        | MPa.        | 60      |
| Elongation at Break                 | D638        | %           | 20      |
| Flexural Stress                     | D790        | MPa.        | 90      |
| Flexural Modulus                    | D790        | MPa.        | 2600    |
| Izod Impact Strength<br>Notched     | D256        | Kg Cm/ Cm   | 8       |
| Heat Deflection Temp                |             |             |         |
| - at 4.6 Kg / Cm <sup>2</sup> load  | D646        | °C          | 155     |
| - at 18.5 Kg / Cm <sup>2</sup> load |             |             | 110     |
| Specific Gravity                    | D792        | -           | 1.42    |
| Shrinkage                           | D955        | %           | 1.6-2.0 |
| Melt Flow Index                     | D1238       | Grams/10min | 9       |

Conditioned test specimen. All results are measured under Dry-as-moulded natural test specimen  
Pigmented colors would record 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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