

## Ovation Polymers Opnyl OP66GF60 Nylon 66, 60% Glass Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66

**Material Notes:**

Nylon 66 - Glass reinforced (60 %), high tensile strength, stiffness and HDT. \*All properties are measured after 48 hours of conditioning at 23°C and 50% relative humidity. All samples are prepared according to ASTM standards. Variations within normal tolerances are possible for various types of colors and functional properties like UV resistance. Information provided by Ovation Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ovation-Polymers-Opnyl-OP66GF60-Nylon-66-60-Glass-Reinforced.php](http://www.lookpolymers.com/polymer_Ovation-Polymers-Opnyl-OP66GF60-Nylon-66-60-Glass-Reinforced.php)

| Physical Properties   | Metric                                      | English                                      | Comments  |
|-----------------------|---|--|-----------|
| Specific Gravity      | 1.68 g/cc                                   | 1.68 g/cc                                    | ASTM D792 |
| Linear Mold Shrinkage | 0.0010 - 0.0035 cm/cm<br>@Thickness 3.17 mm | 0.0010 - 0.0035 in/in<br>@Thickness 0.125 in |           |

| Mechanical Properties   | Metric    | English       | Comments                          |
|-------------------------|-----------|---------------|-----------------------------------|
| Tensile Strength, Yield | 220 MPa   | 31900 psi     | 50 mm/min; ASTM D638              |
| Elongation at Break     | 3.5 %     | 3.5 %         | 50 mm/min; ASTM D638              |
| Tensile Modulus         | 6.80 GPa  | 986 ksi       | 50 mm/min; ASTM D638              |
| Flexural Yield Strength | 330 MPa   | 47900 psi     | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus        | 17.2 GPa  | 2490 ksi      | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched    | 1.19 J/cm | 2.23 ft-lb/in | ASTM D256                         |

| Thermal Properties                          | Metric                       | English                       | Comments              |
|---|------------------------------|-------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 252 °C<br>@Thickness 3.20 mm | 486 °F<br>@Thickness 0.126 in | Unannealed; ASTM D648 |

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