

# OPNYL OP66GF60

Polyamide 66  
Ovation Polymers Inc.

Message:  
Nylon 66 - Glass reinforced (60 %), high tensile strength, stiffness and HDT.

| General Information                                              |                                  |                   |             |
|------------------------------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                           | Glass Fiber,60% Filler by Weight |                   |             |
| Features                                                         | High Stiffness                   |                   |             |
|                                                                  | High Tensile Strength            |                   |             |
| Forms                                                            | Pellets                          |                   |             |
| Physical                                                         | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                                                 | 1.68                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.17 mm)                               | 0.10 to 0.35                     | %                 | ASTM D955   |
| Mechanical                                                       | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus <sup>1</sup>                                     | 6800                             | MPa               | ASTM D638   |
| Tensile Strength <sup>2</sup> (Yield)                            | 220                              | MPa               | ASTM D638   |
| Tensile Elongation <sup>3</sup> (Break)                          | 3.5                              | %                 | ASTM D638   |
| Flexural Modulus <sup>4</sup> (50.0 mm Span)                     | 17200                            | MPa               | ASTM D790   |
| Flexural Strength <sup>5</sup> (Yield, 50.0 mm Span)             | 330                              | MPa               | ASTM D790   |
| Impact                                                           | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (23°C)                                       | 120                              | J/m               | ASTM D256   |
| Thermal                                                          | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm) | 252                              | °C                | ASTM D648   |
| NOTE                                                             |                                  |                   |             |
| 1.                                                               | 50 mm/min                        |                   |             |
| 2.                                                               | 50 mm/min                        |                   |             |
| 3.                                                               | 50 mm/min                        |                   |             |
| 4.                                                               | 1.3 mm/min                       |                   |             |
| 5.                                                               | 1.3 mm/min                       |                   |             |

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