

# Network Polymers PP 30 0500 GF40

Polypropylene Homopolymer

Network Polymers, Inc.

Message:

Network Polymers PP 30 0500 GF40 is a Polypropylene Homopolymer (PP Homopolymer) product filled with 40% glass fiber. It is available in North America. Primary characteristic: chemically coupled.

| General Information  |                                  |                   |             |
|--|----------------------------------|-------------------|-------------|
| Filler / Reinforcement   | Glass Fiber,40% Filler by Weight |                   |             |
| Features   | Chemically Coupled               |                   |             |
|  | Heat Stabilized                  |                   |             |
| Forms  | Pellets                          |                   |             |
| Physical   | Nominal Value                    | Unit              | Test Method |
| Specific Gravity   | 1.22                             | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) <sup>1</sup> (230°C/2.16 kg)                             | 5.0                              | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (23°C, 0.318 mm, Injection Molded)                        | 0.18                             | %                 | ASTM D955   |
| Mechanical   | Nominal Value                    | Unit              | Test Method |
| Tensile Strength <sup>2</sup> (Break, 23°C, 3.18 mm, Injection Molded)             | 106                              | MPa               | ASTM D638   |
| Tensile Elongation <sup>3</sup> (Break, 23°C, 3.18 mm, Injection Molded)           | 2.8                              | %                 | ASTM D638   |
| Flexural Modulus - Tangent <sup>4</sup> (23°C, 3.18 mm, Injection Molded)          | 7980                             | MPa               | ASTM D790   |
| Flexural Strength <sup>5</sup> (23°C, 3.18 mm, Injection Molded)                   | 148                              | MPa               | ASTM D790   |
| Impact   | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm, Injection Molded)                              | 100                              | J/m               | ASTM D256A  |
| Thermal  | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm, Injection Molded) | 162                              | °C                | ASTM D648   |
| Vicat Softening Temperature  | 145                              | °C                | ASTM D1525  |
| Additional Information   | Nominal Value                    | Unit              | Test Method |
| Filler Content   | 40                               | %                 | ASTM D2584  |
| NOTE   |                                  |                   |             |
| 1.   | Procedure A                      |                   |             |
| 2.   | Type I, 51 mm/min                |                   |             |
| 3.   | Type I, 51 mm/min                |                   |             |
| 4.   | 1.3 mm/min                       |                   |             |

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