

## GFS AN40

40% Glass Fiber Reinforced Nylon 6

### Mechanical, Physical, and Thermal Properties

| Property                      | Value      | Unit     | Value       | Unit              |
|-------------------------------|------------|----------|-------------|-------------------|
| Tensile Strength, Yield       | 29,000     | PSI      | 200         | MPa               |
| Tensile Elongation, Break     | 4.0        | %        | 4.0         | %                 |
| Flexural Strength             | 42,050     | PSI      | 290         | MPa               |
| Flexural Modulus              | 2,000,000  | PSI      | 13,800      | MPa               |
| Compressive Strength          | 28,275     | PSI      | 195         | MPa               |
| Izod Impact Strength, Notched | 3.5        | ft lb/in | 14          | KJ/m <sup>2</sup> |
| Heat Deflection Temperature   | 410        | °F       | 210         | °C                |
| Service Temperature Range     | -65 to 285 | °F       | - 54 to 140 | °C                |
| Specific Gravity              | 1.45       | -        | 1.45        | -                 |
| Hardness, Rockwell            | 90         | M Scale  | 90          | M Scale           |
| Moisture Absorption           | 0.25       | %        | 0.25        | %                 |

January 1, 2017

This information corresponds to our current information on this material. It is provided solely to provide guidelines for your evaluation. This information is not intended to substitute for any testing you may need to conduct to determine the suitability of our products for your particular application. Since we cannot anticipate all variations of the actual end use application conditions, we do not make any warranties or assume any liabilities in connection with any use of this information.

### Features

- > High wear resistance
- > High compressive strength
- > Good temperature resistance
- > Low moisture absorption
- > Excellent fluid resistance
- > Cost effective



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