

## NYCOA 5033 HS 33% Glass-Fiber Reinforced, Heat Stabilized, Nylon 66 Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

### Material Notes:

NYCOA 5033 HS is a 33% glass fiber reinforced, heat stabilized Nylon 66 resin used for injection molding. It offers an outstanding balance of mechanical properties over standard grades of conventional Nylon 66. NYCOA 5033 HS has been specifically formulated for optimum thermal stability and chemical resistance. This grade is available in UV stable, custom colors, and impact modified grades. Typical applications include pedal brackets and supports, air intake manifolds, radiator end tanks, valve covers, and power tool housings. Information provided by Nycoa, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NYCOA-5033-HS-33-Glass-Fiber-Reinforced-Heat-Stabilized-Nylon-66-Resin.php](http://www.lookpolymers.com/polymer_NYCOA-5033-HS-33-Glass-Fiber-Reinforced-Heat-Stabilized-Nylon-66-Resin.php)

| Physical Properties               | Metric       | English      | Comments            |
|-----------------------------------|--------------|--------------|---------------------|
| Specific Gravity                  | 1.38 g/cc    | 1.38 g/cc    | ASTM D792           |
| Water Absorption                  | 0.70 %       | 0.70 %       | 24 hours; ASTM D570 |
| Linear Mold Shrinkage             | 0.0050 cm/cm | 0.0050 in/in | ASTM D955           |
| Linear Mold Shrinkage, Transverse | 0.0080 cm/cm | 0.0080 in/in | ASTM D955           |

| Mechanical Properties   | Metric    | English       | Comments  |
|-------------------------|-----------|---------------|-----------|
| Hardness, Rockwell R    | 122       | 122           | ASTM D785 |
| Tensile Strength, Yield | 200 MPa   | 29000 psi     | ASTM D638 |
| Elongation at Break     | 4.0 %     | 4.0 %         | ASTM D638 |
| Flexural Strength       | 260 MPa   | 37700 psi     | ASTM D790 |
| Flexural Modulus        | 8.90 GPa  | 1290 ksi      | ASTM D790 |
| Izod Impact, Notched    | 1.30 J/cm | 2.44 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric | English | Comments  |
|---------------------------------------------|--------|---------|-----------|
| Melting Point                               | 263 °C | 505 °F  | ASTM D789 |
| Deflection Temperature at 0.46 MPa (66 psi) | 260 °C | 500 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 240 °C | 464 °F  | ASTM D648 |

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