

## Polymer Resources NY66-M40-[color]-H Nylon 66, 40% Mineral Filled, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Mineral Filled , Nylon 66, Heat Stabilized

### Material Notes:

Nylon 66, 40% Mineral Filled, Lubricated, Heat Stabilized  
Process: Injection Molding  
Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Nylon grades are tested dry as molded (DAM).  
Information provided by Polymer Resources Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polymer-Resources-NY66-M40-color-H-Nylon-66-40-Mineral-Filled-Heat-Stabilized.php](http://www.lookpolymers.com/polymer_Polymer-Resources-NY66-M40-color-H-Nylon-66-40-Mineral-Filled-Heat-Stabilized.php)

| Physical Properties   | Metric               | English              | Comments  |
|-----------------------|----------------------|----------------------|-----------|
| Specific Gravity      | 1.49 g/cc            | 1.49 g/cc            | ASTM D792 |
| Linear Mold Shrinkage | 0.0070 - 0.010 cm/cm | 0.0070 - 0.010 in/in | ASTM D955 |

| Mechanical Properties     | Metric                             | English                                | Comments  |
|---------------------------|------------------------------------|----------------------------------------|-----------|
| Tensile Strength at Break | 96.5 MPa                           | 14000 psi                              | ASTM D638 |
| Tensile Strength, Yield   | 96.5 MPa                           | 14000 psi                              | ASTM D638 |
| Flexural Strength         | 159 MPa                            | 23000 psi                              | ASTM D790 |
| Flexural Modulus          | 6.21 GPa                           | 900 ksi                                | ASTM D790 |
| Izod Impact, Notched      | 0.481 J/cm<br>@Temperature 22.8 °C | 0.900 ft-lb/in<br>@Temperature 73.0 °F | ASTM D256 |

| Thermal Properties                          | Metric                   | English                    | Comments  |
|---------------------------------------------|--------------------------|----------------------------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 238 °C                   | 460 °F                     | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 193 °C                   | 380 °F                     | ASTM D648 |
| Flammability, UL94                          | HB<br>@Thickness 1.59 mm | HB<br>@Thickness 0.0626 in |           |
|                                             | HB<br>@Thickness 3.17 mm | HB<br>@Thickness 0.125 in  |           |

| Processing Properties   | Metric       | English      | Comments |
|-------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 271 - 282 °C | 520 - 540 °F |          |
|                         |              |              |          |

| Middle Barrel Temperature<br>Processing Properties | 277 - 288 °C<br>Metric | 530 - 550 °F<br>English | Comments |
|----------------------------------------------------|------------------------|-------------------------|----------|
| Front Barrel Temperature                           | 293 - 304 °C           | 560 - 580 °F            |          |
| Melt Temperature                                   | 288 - 299 °C           | 550 - 570 °F            |          |
| Mold Temperature                                   | 65.6 - 104 °C          | 150 - 220 °F            |          |
| Drying Temperature                                 | 73.9 - 85.0 °C         | 165 - 185 °F            |          |
| Dry Time                                           | 3.00 - 4.00 hour       | 3.00 - 4.00 hour        |          |

| Descriptive Properties | Value  | Comments |
|------------------------|--------|----------|
| Vent                   | 0.0005 |          |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China