

Polymer Resources NY6-M40 Nylon 6, 40% Mineral Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Mineral Filled

Material Notes:

Nylon 6, 40% Mineral Filled, Lubricated
 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-NY6-M40-Nylon-6-40-Mineral-Filled.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 | 89.6 MPa | 13000 psi | ASTM D638 |
| Tensile Strength, Yield | 89.6 MPa | 13000 psi | ASTM D638 |
| Flexural Strength | 128 MPa | 18500 psi | ASTM D790 |
| Flexural Modulus | 5.86 GPa | 850 ksi | ASTM D790 |
| Izod Impact, Notched | 0.587 J/cm @Temperature 22.8 °C | 1.10 ft-lb/in @Temperature 73.0 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|----------------------------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 166 °C | 330 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 120 °C | 248 °F | ASTM D648 |
| Flammability, UL94 | HB @Thickness 1.59 mm | HB @Thickness 0.0626 in | |
| | HB @Thickness 3.17 mm | HB @Thickness 0.125 in | |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 232 - 249 °C | 450 - 480 °F | |
| Middle Barrel Temperature | 243 - 260 °C | 470 - 500 °F | |

| Front Barrel Temperature Processing Properties | 249 - 268 °C Metric | 480 - 515 °F English | Comments |
|---|------------------------|-------------------------|----------|
| Melt Temperature | 249 - 271 °C | 480 - 520 °F | |
| Mold Temperature | 82.2 - 104 °C | 180 - 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 | |

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