

Polymer Resources NY66-IM2-[color]H Nylon, Superior Impact Modified, Heat Stabilized (DAM)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

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-IM2-colorH-Nylon-Superior-Impact-Modified-Heat-Stabilized-DAM.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---------------------|---------------------------|-----------|
| Density | 1.07 g/cc | 0.0387 lb/in ³ | ASTM D792 |
| Linear Mold Shrinkage | 0.017 - 0.020 cm/cm | 0.017 - 0.020 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|---------------|-----------|
| Tensile Strength at Break | 51.7 MPa | 7500 psi | ASTM D638 |
| Tensile Strength, Yield | 50.3 MPa | 7300 psi | ASTM D638 |
| Flexural Strength | 62.1 MPa | 9000 psi | ASTM D790 |
| Flexural Modulus | 1.69 GPa | 245 ksi | ASTM D790 |
| Izod Impact, Notched | 8.54 J/cm | 16.0 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 213 °C | 415 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 68.3 °C | 155 °F | ASTM D648 |
| Flammability, UL94 | HB | HB | 1/16 in |

| Processing Properties | Metric | English | Comments |
|---------------------------|----------------|--------------|----------|
| Rear Barrel Temperature | 266 - 277 °C | 510 - 530 °F | |
| Middle Barrel Temperature | 271 - 282 °C | 520 - 540 °F | |
| Front Barrel Temperature | 277 - 288 °C | 530 - 550 °F | |
| Melt Temperature | 277 - 293 °C | 530 - 560 °F | |
| Mold Temperature | 65.6 - 93.3 °C | 150 - 200 °F | |
| Drying Temperature | 73.9 - 85.0 °C | 165 - 185 °F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------|----------|----------|
| Dry Time | 3-4 hour | 3-4 hour | |

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