

## Wellman Wellamid® 220-N Unfilled Nylon 66, Not Lubricated, Nucleated, or Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

### Material Notes:

Typical Applications: Automotive components, gears, switches, bearings, pulleys, fasteners, electrical coil forms, chain-saw hand guards, cable ties, furniture hardware, small appliance housings, aerosol spray heads. Data provided by the manufacturer, Wellman Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Wellman-Wellamid-220-N-Unfilled-Nylon-66-Not-Lubricated-Nucleated-or-Heat-Stabilized.php](http://www.lookpolymers.com/polymer_Wellman-Wellamid-220-N-Unfilled-Nylon-66-Not-Lubricated-Nucleated-or-Heat-Stabilized.php)

| Physical Properties   | Metric              | English                   | Comments           |
|-----------------------|---------------------|---------------------------|--------------------|
| Density               | 1.14 g/cc           | 0.0412 lb/in <sup>3</sup> | ISO 1183           |
| Water Absorption      | 1.4 %               | 1.4 %                     | Approximate 24 hr. |
| Linear Mold Shrinkage | 0.017 - 0.021 cm/cm | 0.017 - 0.021 in/in       | ISO 294-4          |

| Mechanical Properties      | Metric     | English        | Comments |
|----------------------------|------------|----------------|----------|
| Tensile Strength, Ultimate | 80.0 MPa   | 11600 psi      | ISO 527  |
| Elongation at Break        | 50 %       | 50 %           | ISO 527  |
| Flexural Yield Strength    | 110 MPa    | 16000 psi      | ISO 178  |
| Flexural Modulus           | 2.90 GPa   | 421 ksi        | ISO 178  |
| Izod Impact, Notched       | 0.500 J/cm | 0.937 ft-lb/in | ISO 180  |

| Thermal Properties                          | Metric                     | English                     | Comments |
|---|----------------------------|-----------------------------|----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 68.0 °C                    | 154 °F                      | ISO 75   |
| Flammability, UL94                          | V-2<br>@Thickness 0.790 mm | V-2<br>@Thickness 0.0311 in |          |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature   | 277 - 293 °C | 530 - 560 °F |          |
| Middle Barrel Temperature | 271 - 288 °C | 520 - 550 °F |          |
| Front Barrel Temperature  | 266 - 282 °C | 510 - 540 °F |          |
| Nozzle Temperature        | 266 - 293 °C | 510 - 560 °F |          |
| Melt Temperature          | 271 - 304 °C | 520 - 580 °F |          |

| Processing Properties | Metric         | English          | Comments   |
|-----------------------|----------------|------------------|--|
| Drying Temperature    | 79.4 °C        | 175 °F           | Opened bags and gaylord boxes                    |
| Dry Time              | 2 - 4 hour     | 2 - 4 hour       | Opened bags and gaylord boxes                    |
| Moisture Content      | 0.050 - 0.20 % | 0.050 - 0.20 %   | During molding to prevent hydrolytic degradation |
|                       | <= 0.20 %      | <= 0.20 %        | In shipping bags, ready to mold                  |
| Injection Pressure    | 34.5 - 138 MPa | 5000 - 20000 psi |  |
| Back Pressure         | 0.345 MPa      | 50.0 psi         |  |
| Screw Speed           | 30 - 120 rpm   | 30 - 120 rpm     |  |

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