



# Wellamid® ENGINEERING RESIN

## Wellamid® NY1599-GY

*General Purpose Nylon Resin (PA66)*

| Property               | ISO         | Metric            | Standard     |                        |               |
|------------------------|-------------|-------------------|--------------|------------------------|---------------|
|                        | Test Method | Units             | Value        | Units                  | Value         |
| Tensile Strength       | 527-93      | MPa               | <b>80</b>    | psi*                   | <b>11,600</b> |
| Tensile Elongation     | 527-93      | %                 | <b>10</b>    | %                      | <b>10</b>     |
| Flexural Modulus       | 178-93      | MPa               | <b>3,000</b> | psi*(10 <sup>5</sup> ) | <b>4.4</b>    |
| Flexural Strength      | 178-93      | MPa               | <b>110</b>   | psi*                   | <b>16,000</b> |
| Izod Impact            | 180-93      | kJ/m <sup>2</sup> | <b>4</b>     | ft-lbs/in*             | <b>0.8</b>    |
| HDT @ 264 psi          | 75-93       | °C                | <b>75</b>    | °F                     | <b>165</b>    |
| Density                | 1183-87     | g/cc              | <b>1.16</b>  | g/cc                   | <b>1.16</b>   |
| Melting Point          | 3146        | °C                | <b>260</b>   | °F                     | <b>500</b>    |
| Shrinkage – Flow       | DIS 294-4   | %                 | <b>1.2</b>   | %                      | <b>1.2</b>    |
| Shrinkage – Transverse | DIS 294-4   | %                 | <b>1.2</b>   | %                      | <b>1.2</b>    |
| Flammability           | UL-94       |                   | -            |                        | -             |
| Filler Content         | 3451-4      | %                 | <b>0</b>     | %                      | <b>0</b>      |

Note: This is typical data obtained from injection molded test bars, tested dry as molded at 73°F (23°C). Pigments, colorants and other additives may affect certain properties; customers should verify actual properties when considering applications. The data listed here fall in the normal range of product properties but it should not be used to establish specification limits or used alone as the basis for design.

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\*\* Rounded conversions of Metric Units \*\*  
 1 MPa = 145 PSI  
 5.25 kJ/m<sup>2</sup> = 1 ft-lbs/in

**For more information call our Customer Service - Toll Free: 1 (800) 821-6022**