



# WELLAMID<sup>®</sup> ENGINEERING RESIN

01/05(d)

## XT1863-BK1

### Impact Modified Nylon 66 Resin

| Property               | ISO         | Metric            | Standard       |                        |                |
|------------------------|-------------|-------------------|----------------|------------------------|----------------|
|                        | Test Method | Units             | Units          |                        |                |
| Tensile Strength       | 527-93      | MPa               | <b>60</b>      | psi*                   | <b>8,700</b>   |
| Tensile Elongation     | 527-93      | %                 | <b>60</b>      | %                      | <b>60</b>      |
| Flexural Modulus       | 178-93      | MPa               | <b>2,200</b>   | psi*(10 <sup>5</sup> ) | <b>3.2</b>     |
| Flexural Strength      | 178-93      | MPa               | <b>75</b>      | psi*                   | <b>10,900</b>  |
| Izod Impact            | 180-93      | kJ/m <sup>2</sup> | <b>14</b>      | ft-lbs/in*             | <b>3</b>       |
| HDT 264 psi            | 75-93       | °C                | <b>65</b>      | °F                     | <b>150</b>     |
| Density                | 1183-87     | g/cc              | <b>1.11</b>    | g/cc                   | <b>1.11</b>    |
| Melting Point          | 3146        | °C                | <b>260</b>     | °F                     | <b>500</b>     |
| Shrinkage - Flow       | DIS 294-4   | %                 | <b>1.7-2.1</b> | %                      | <b>1.7-2.1</b> |
| Shrinkage - Transverse | DIS 294-4   | %                 | <b>1.6-2.0</b> | %                      | <b>1.6-2.0</b> |
| 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 effect 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 \*\* Wellman Laboratory Tests

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