

# Vydyne® A 30 GF NT KW2 UV

polyamide 66



Vydyne A 30 GF NT KW2 UV is standard flow, organic heat stabilized, 30% glass-fiber reinforced PA66 resin. Available in natural, this product is also lubricated for improved machine feed and flow and it is UV stabilized for outdoor applications.

## General

|                       |                                                                  |                                                |                                   |
|-----------------------|------------------------------------------------------------------|------------------------------------------------|-----------------------------------|
| Regional Availability | • North America                                                  | • Europe                                       | • Asia Pacific                    |
| Additive              | • Heat Stabilizer                                                | • Lubricant                                    |                                   |
| Features              | • Chemical Resistant<br>• Good Flow<br>• Organic Heat Stabilized | • Gasoline Resistant<br>• Good Heat Resistance | • General Purpose<br>• Lubricated |
| Appearance            | • Natural Color                                                  |                                                |                                   |
| Forms                 | • Pellets                                                        |                                                |                                   |
| Processing Method     | • Injection Molding                                              |                                                |                                   |

## Physical

|                             | dry  | cond. | Unit              | Test Standard |
|-----------------------------|------|-------|-------------------|---------------|
| Density                     | 1.36 | -     | g/cm <sup>3</sup> | ISO 1183      |
| Molding Shrinkage           |      |       |                   | ISO 294-4     |
| Across Flow : 23°C, 2.00 mm | 0.7  | *     | %                 |               |
| Flow : 23°C, 2.00 mm        | 0.3  | *     | %                 |               |
| Water Absorption            |      |       |                   | ISO 62        |
| Equilibrium, 23°C, 50% RH   | 1.7  | *     | %                 |               |

## Mechanical

|                              | dry  | cond. | Unit | Test Standard |
|------------------------------|------|-------|------|---------------|
| Tensile Modulus (23°C)       | 9800 | 7000  | MPa  | ISO 527-2     |
| Tensile Stress (Break, 23°C) | 185  | 125   | MPa  | ISO 527-2     |
| Tensile Strain (Break, 23°C) | 2.5  | 4.5   | %    | ISO 527-2     |

## Impact

|                                     | dry | cond. | Unit              | Test Standard |
|-------------------------------------|-----|-------|-------------------|---------------|
| Notched Izod Impact Strength, +23°C | 12  | 20    | kJ/m <sup>2</sup> | ISO 180/1A    |

## Thermal

|                             | dry | cond. | Unit | Test Standard |
|-----------------------------|-----|-------|------|---------------|
| Heat Deflection Temperature |     |       |      | ISO 75-2/A    |
| 1.80 MPa, Unannealed        | 250 | -     | °C   |               |
| 0.45 MPa, Unannealed        | 250 | -     | °C   |               |
| Melting Temperature         | 260 | *     | °C   | ISO 11357-3   |

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| Electrical                           | Value | Unit | Test Standard |
|--------------------------------------|-------|------|---------------|
| Comparative Tracking Index (3.00 mm) | 600   | V    | IEC 60112     |

| Flammability | Value | Test Standard |
|--------------|-------|---------------|
| Flammability |       | UL 94         |
| 0.750 mm     | HB    |               |
| 1.50 mm      | HB    |               |
| 3.00 mm      | HB    |               |

| Injection                     | Value     | Unit |
|-------------------------------|-----------|------|
| Drying Temperature            | 80 - 90   | °C   |
| Drying Time                   | ≥ 3       | h    |
| Rear Temperature              | 265 - 295 | °C   |
| Middle Temperature            | 265 - 295 | °C   |
| Front Temperature             | 265 - 295 | °C   |
| Nozzle temperature            | 265 - 295 | °C   |
| Processing (Melt) Temperature | 265 - 295 | °C   |
| Mold Temperature              | 70 - 90   | °C   |

