

# Vydyne® RF00ASXS

polyamide 66



Vydyne RF00ASXS is a 50% glass fiber reinforced PA66 for injection molded applications.

| General               |                                 |  |  |  |
|-----------------------|---------------------------------|--|--|--|
| Regional Availability | • North America • Europe        |  |  |  |
| Additive              | • Release agent                 |  |  |  |
| Features              | • High Rigidity • High Strength |  |  |  |
| Agency Rating         | • ISO, 1043 PA66 GF50           |  |  |  |
| Appearance            | • Natural Color                 |  |  |  |
| Forms                 | • Pellets                       |  |  |  |
| Processing Method     | • Injection Molding             |  |  |  |

  

| Physical                      | dry  | cond. | Unit              | Test Standard |
|-------------------------------|------|-------|-------------------|---------------|
| Density                       | 1.57 | -     | g/cm <sup>3</sup> | ISO 1183      |
| Water Absorption, 23°C, 24 hr | 0.7  | *     | %                 | ISO 62        |

  

| Mechanical                   | dry   | cond. | Unit | Test Standard |
|------------------------------|-------|-------|------|---------------|
| Tensile Modulus (23°C)       | 15400 | -     | MPa  | ISO 527-2     |
| Tensile Stress (Yield, 23°C) | 210   | -     | MPa  | ISO 527-2     |
| Tensile Strain (Break, 23°C) | 2.4   | -     | %    | ISO 527-2     |
| Flexural Modulus (23°C)      | 14100 | -     | MPa  | ISO 178       |
| Flexural Strength (23°C)     | 305   | -     | MPa  | ISO 178       |

  

| Impact                              | dry | cond. | Unit              | Test Standard |
|-------------------------------------|-----|-------|-------------------|---------------|
| Notched Izod Impact Strength, +23°C | 15  | -     | 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        | 246 | -     | °C   |               |
| 0.45 MPa, Unannealed        | 259 | -     | °C   |               |

  

| Injection              | Value     | Unit |
|------------------------|-----------|------|
| Drying Temperature     | 70 - 90   | °C   |
| Drying Time            | 4         | h    |
| Suggested Max Moisture | 0.2       | %    |
| Rear Temperature       | 260 - 280 | °C   |
| Middle Temperature     | 270 - 280 | °C   |
| Front Temperature      | 270 - 280 | °C   |

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|                               |           |    |
|-------------------------------|-----------|----|
| Nozzle temperature            | 270 - 280 | °C |
| Processing (Melt) Temperature | 270 - 280 | °C |
| Mold Temperature              | 60 - 90   | °C |

