

# Vydyne® RF006S

polyamide 66



Vydyne RF006S is a 30% glass fiber reinforced PA66 for injection molded applications.

| General               |                                  |  |  |  |
|-----------------------|----------------------------------|--|--|--|
| Regional Availability | • North America • Europe         |  |  |  |
| Additive              | • Release agent                  |  |  |  |
| Features              | • Good Stiffness • Good Strength |  |  |  |
| Agency Rating         | • ISO, 1043 PA66 GF30            |  |  |  |
| Appearance            | • Natural Color                  |  |  |  |
| Forms                 | • Pellets                        |  |  |  |
| Processing Method     | • Injection Molding              |  |  |  |

  

| Physical | dry  | cond. | Unit              | Test Standard |
|----------|------|-------|-------------------|---------------|
| Density  | 1.37 | -     | g/cm <sup>3</sup> | ISO 1183      |

  

| Mechanical                   | dry  | cond. | Unit | Test Standard |
|------------------------------|------|-------|------|---------------|
| Tensile Modulus (23°C)       | 9400 | -     | MPa  | ISO 527-2     |
| Tensile Stress (Break, 23°C) | 170  | -     | MPa  | ISO 527-2     |
| Tensile Strain (Break, 23°C) | 2.5  | -     | %    | ISO 527-2     |
| Flexural Modulus (23°C)      | 8300 | -     | MPa  | ISO 178       |
| Flexural Strength (23°C)     | 230  | -     | MPa  | ISO 178       |

  

| Impact                                  | dry | cond. | Unit              | Test Standard |
|-----------------------------------------|-----|-------|-------------------|---------------|
| Charpy Notched Impact Strength, +23°C   | 10  | -     | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Charpy Unnotched Impact Strength, +23°C | 80  | -     | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Notched Izod Impact Strength, +23°C     | 10  | -     | kJ/m <sup>2</sup> | ISO 180/1A    |
| Unnotched Izod Impact Strength, +23°C   | 75  | -     | kJ/m <sup>2</sup> | ISO 180/1U    |

  

| Injection                     | Value     | Unit |
|-------------------------------|-----------|------|
| Drying Temperature            | 75 - 85   | °C   |
| Drying Time                   | 4         | h    |
| Suggested Max Moisture        | 0.2       | %    |
| Rear Temperature              | 260 - 280 | °C   |
| Middle Temperature            | 270 - 280 | °C   |
| Front Temperature             | 270 - 290 | °C   |
| Processing (Melt) Temperature | 270 - 290 | °C   |
| Mold Temperature              | 60 - 90   | °C   |

