

# Vydyne® RF007ESS

polyamide 66



Vydyne RF007ESS (formerly RF1007EMHS) is a 35% glass fiber reinforced PA66 + PA6 for injection molded applications.

## General

|                       |                           |                 |
|-----------------------|---------------------------|-----------------|
| Regional Availability | • North America           | • Europe        |
| Additive              | • Heat Stabilizer         | • Release agent |
| Features              | • Good Stiffness          | • Good Strength |
| Agency Rating         | • ISO, 1043 PA66+PA6 GF35 |                 |
| Appearance            | • Natural Color           |                 |
| Forms                 | • Pellets                 |                 |
| Processing Method     | • Injection Molding       |                 |

## Physical

|         | dry  | cond. | Unit              | Test Standard |
|---------|------|-------|-------------------|---------------|
| Density | 1.40 | -     | g/cm <sup>3</sup> | ISO 1183      |

## Mechanical

|                              | dry  | cond. | Unit | Test Standard |
|------------------------------|------|-------|------|---------------|
| Tensile Stress (Break, 23°C) | 178  | -     | MPa  | ISO 527-2     |
| Tensile Strain (Break, 23°C) | 2.4  | -     | %    | ISO 527-2     |
| Flexural Modulus (23°C)      | 9100 | -     | MPa  | ISO 178       |
| Flexural Strength (23°C)     | 235  | -     | MPa  | ISO 178       |

## Impact

|                                       | dry | cond. | Unit              | Test Standard |
|---------------------------------------|-----|-------|-------------------|---------------|
| Notched Izod Impact Strength, +23°C   | 10  | -     | kJ/m <sup>2</sup> | ISO 180/1A    |
| Unnotched Izod Impact Strength, +23°C | 50  | -     | kJ/m <sup>2</sup> | ISO 180/1U    |

## Thermal

|                                                   | dry | cond. | Unit | Test Standard |
|---------------------------------------------------|-----|-------|------|---------------|
| Heat Deflection Temperature, 1.80 MPa, Unannealed | 237 | -     | °C   | ISO 75-2/A    |

## Injection

|                               | Value     | Unit |
|-------------------------------|-----------|------|
| 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   |

