

## Vydyne® RFB33

Ascend Performance Materials Operations LLC - Polyamide 66

### General Information

#### Product Description

Vydyne RFB33 is glass bead and glass fiber reinforced PA66 for injection molded applications (also known as Vydyne 66 1515VK Z3).

#### General

|                        |                                                |
|------------------------|------------------------------------------------|
| Material Status        | • Commercial: Active                           |
| Availability           | • Europe • North America                       |
| Filler / Reinforcement | • Glass Bead\Glass Fiber, 30% Filler by Weight |
| Additive               | • Heat Stabilizer • Mold Release               |
| Features               | • Good Dimensional Stability • Heat Stabilized |
| Agency Ratings         | • ISO 1043 PA66 (GF+GB)30                      |
| Appearance             | • Natural Color                                |
| Forms                  | • Pellets                                      |
| Processing Method      | • Injection Molding                            |
| Resin ID               | • PA66-(GF+GB)30                               |

### Properties <sup>1</sup>

| Physical                                | Nominal Value | Unit                  | Test Method |
|-----------------------------------------|---------------|-----------------------|-------------|
| Density                                 | 1.36          | g/cm <sup>3</sup>     | ISO 1183    |
| Mechanical                              | Nominal Value | Unit                  | Test Method |
| Tensile Modulus (73°F)                  | 1.02E+6       | psi                   | ISO 527-1   |
| Tensile Stress (Break, 73°F)            | 18600         | psi                   | ISO 527-2   |
| Tensile Strain (Break, 73°F)            | 2.6           | %                     | ISO 527-2   |
| Flexural Modulus (73°F)                 | 870000        | psi                   | ISO 178     |
| Flexural Stress (73°F)                  | 26800         | psi                   | ISO 178     |
| Impact                                  | Nominal Value | Unit                  | Test Method |
| Charpy Notched Impact Strength (73°F)   | 2.7           | ft·lb/in <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength (73°F) | 22            | ft·lb/in <sup>2</sup> | ISO 179/1eU |
| Notched Izod Impact Strength (73°F)     | 2.9           | ft·lb/in <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact Strength (73°F)   | 20            | ft·lb/in <sup>2</sup> | ISO 180/1U  |

### Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 158 to 176    | °F   |
| Drying Time            | 4.0           | hr   |
| Suggested Max Moisture | 0.20          | %    |
| Rear Temperature       | 500 to 536    | °F   |
| Middle Temperature     | 518 to 545    | °F   |
| Front Temperature      | 509 to 536    | °F   |
| Processing (Melt) Temp | 509 to 536    | °F   |
| Mold Temperature       | 158 to 194    | °F   |

