

# Wellamid® FRGF1827-BK1

Polyamide 66

Wellman Engineering Resins

## Message:

Wellamid® FRGF1827-BK1 is a Polyamide 66 (Nylon 66) material filled with 15% glass fiber. It is available in Asia Pacific, Europe, Latin America, or North America.

Important attributes of Wellamid® FRGF1827-BK1 are:

Flame Rated

Flame Retardant

| General Information                               |                                  |                   |             |
|---------------------------------------------------|----------------------------------|-------------------|-------------|
| UL YellowCard                                     | E44600-235493                    |                   |             |
| Filler / Reinforcement                            | Glass Fiber,15% Filler by Weight |                   |             |
| Features                                          | Flame Retardant                  |                   |             |
| Forms                                             | Pellets                          |                   |             |
| Physical                                          | Nominal Value                    | Unit              | Test Method |
| Density                                           | 1.35                             | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                                 |                                  |                   | ISO 294-4   |
| Across Flow : 23°C                                | 0.60 to 1.0                      | %                 |             |
| Flow : 23°C                                       | 0.80 to 1.2                      | %                 |             |
| Mechanical                                        | Nominal Value                    | Unit              | Test Method |
| Tensile Stress (Yield, 23°C)                      | 80.0                             | MPa               | ISO 527-2   |
| Tensile Strain (Yield, 23°C)                      | 2.0                              | %                 | ISO 527-2   |
| Flexural Modulus (23°C)                           | 5000                             | MPa               | ISO 178     |
| Flexural Stress (23°C)                            | 125                              | MPa               | ISO 178     |
| Impact                                            | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact Strength (23°C)               | 3.0                              | kJ/m <sup>2</sup> | ISO 180     |
| Thermal                                           | Nominal Value                    | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 210                              | °C                | ISO 75-2/A  |
| Melting Temperature (DSC)                         | 260                              | °C                | ISO 3146    |
| Flammability                                      | Nominal Value                    |                   | Test Method |
| Flame Rating (0.800 mm)                           | V-0                              |                   | UL 94       |

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