

# Badamid® LB70 GF M60 FR HF

Polyamide 6

Bada AG

## Message:

Badamid® LB70 GF M60 FR HF is a Polyamide 6 (Nylon 6) material. It is available in Europe. Primary attribute of Badamid® LB70 GF M60 FR HF: Flame Rated.

| General Information                     |         |                |                   |                |
|-----------------------------------------|---------|----------------|-------------------|----------------|
| UL YellowCard                           |         | E189230-227339 |                   |                |
| Physical                                | Dry     | Conditioned    | Unit              | Test Method    |
| Density                                 | 1.67    | --             | g/cm <sup>3</sup> | ISO 1183       |
| Mechanical                              | Dry     | Conditioned    | Unit              | Test Method    |
| Tensile Modulus (23°C)                  | 11000   | 6500           | MPa               | ISO 527-2/1    |
| Tensile Stress (Break, 23°C)            | 110     | 80.0           | MPa               | ISO 527-2/5    |
| Tensile Strain (Break, 23°C)            | 1.8     | 2.5            | %                 | ISO 527-2/5    |
| Impact                                  | Dry     | Conditioned    | Unit              | Test Method    |
| Charpy Notched Impact Strength (23°C)   | 3.8     | 5.0            | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Charpy Unnotched Impact Strength (23°C) | 30      | 30             | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Thermal                                 | Dry     | Conditioned    | Unit              | Test Method    |
| Heat Deflection Temperature             |         |                |                   |                |
| 0.45 MPa, Unannealed                    | 215     | --             | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                     | 195     | --             | °C                | ISO 75-2/A     |
| Melting Temperature (DSC)<br>1          | 220     | --             | °C                | ISO 3146       |
| Electrical                              | Dry     | Conditioned    | Unit              | Test Method    |
| Surface Resistivity                     | --      | 1.0E+13        | ohms              | IEC 60093      |
| Volume Resistivity                      | 1.0E+13 | 1.0E+10        | ohms·cm           | IEC 60093      |
| Relative Permittivity (1 MHz)           | 4.50    | 5.00           |                   | IEC 60250      |
| Dissipation Factor (1 MHz)              | 0.015   | 0.050          |                   | IEC 60250      |
| Comparative Tracking Index              | 600     | --             | V                 | IEC 60112      |
| Flammability                            | Dry     | Conditioned    | Unit              | Test Method    |
| Flame Rating                            |         |                |                   | UL 94          |
| 0.800 mm                                | V-2     | --             |                   |                |
| 1.60 mm                                 | V-0     | --             |                   |                |
| Glow Wire Flammability Index (1.60 mm)  | 960     | --             | °C                | IEC 60695-2-12 |
| Injection                               | Dry     | Unit           |                   |                |
| Drying Temperature                      | 80.0    |                | °C                |                |

|                        |              |    |
|------------------------|--------------|----|
| Drying Time            | 2.0 to 4.0   | hr |
| Processing (Melt) Temp | 250 to 270   | °C |
| Mold Temperature       | 60.0 to 90.0 | °C |

NOTE

1. 10 K/min

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