

# Badamid® LB75 H

Polyamide 6

Bada AG

Message:

Badamid® LB75 H is a Polyamide 6 (Nylon 6) material. It is available in Europe. Primary attribute of Badamid® LB75 H: Flame Rated.

| General Information                   |                       |                |                   |              |
|---------------------------------------|-----------------------|----------------|-------------------|--------------|
| UL YellowCard                         |                       | E189230-227324 |                   |              |
| Physical                              | Dry                   | Conditioned    | Unit              | Test Method  |
| Density                               | 1.13                  | --             | g/cm <sup>3</sup> | ISO 1183     |
| Water Absorption                      |                       |                |                   | ISO 62       |
| Saturation, 23°C                      | 9.0 to 10             | --             | %                 |              |
| Equilibrium, 23°C, 50% RH             | 2.6 to 3.4            | --             | %                 |              |
| Mechanical                            | Dry                   | Conditioned    | Unit              | Test Method  |
| Tensile Modulus (23°C)                | 2800                  | 900            | MPa               | ISO 527-2/1  |
| Tensile Stress (Yield, 23°C)          | 80.0                  | 45.0           | MPa               | ISO 527-2/50 |
| Impact                                | Dry                   | Conditioned    | Unit              | Test Method  |
| Charpy Notched Impact Strength (23°C) | 7.0                   | 70             | kJ/m <sup>2</sup> | ISO 179/1eA  |
| Charpy Unnotched Impact Strength      |                       |                |                   | ISO 179/1eU  |
| -30°C                                 | No Break              | --             |                   |              |
| 23°C                                  | No Break              | No Break       |                   |              |
| Notched Izod Impact Strength          |                       |                |                   | ISO 180/1A   |
| -30°C                                 | 5.0                   | --             | kJ/m <sup>2</sup> |              |
| 23°C                                  | 6.5 kJ/m <sup>2</sup> | No Break       |                   |              |
| Thermal                               | Dry                   | Conditioned    | Unit              | Test Method  |
| Heat Deflection Temperature           |                       |                |                   |              |
| 0.45 MPa, Unannealed                  | 170                   | --             | °C                | ISO 75-2/B   |
| 1.8 MPa, Unannealed                   | 65.0                  | --             | °C                | ISO 75-2/A   |
| Melting Temperature (DSC)<br>1        | 220                   | --             | °C                | ISO 3146     |
| CLTE                                  |                       |                |                   | DIN 53752    |
| Flow                                  | 7.0E-5 to 1.0E-4      | --             | cm/cm/°C          |              |
| Transverse                            | 7.0E-5 to 1.0E-4      | --             | cm/cm/°C          |              |
| Maximum Service Temperature           |                       |                |                   | IEC 60216    |
| -- 2                                  | 121                   | --             | °C                |              |
| --                                    | > 180                 | --             | °C                |              |

| Electrical                    | Dry          | Conditioned | Unit    | Test Method |
|-------------------------------|--------------|-------------|---------|-------------|
| Surface Resistivity           | 1.0E+13      | 1.0E+10     | ohms    | IEC 60093   |
| Volume Resistivity            | 1.0E+13      | 1.0E+10     | ohms·cm | IEC 60093   |
| Relative Permittivity (1 MHz) | 3.50         | 7.00        |         | IEC 60250   |
| Dissipation Factor (1 MHz)    | 0.031        | 0.30        |         | IEC 60250   |
| Comparative Tracking Index    | 600          | --          | V       | IEC 60112   |
| Flammability                  | Dry          | Conditioned | Unit    | Test Method |
| Flame Rating                  |              |             |         | UL 94       |
| 0.800 mm                      | HB           | --          |         |             |
| 1.60 mm                       | HB           | --          |         |             |
| Injection                     | Dry          | Unit        |         |             |
| Drying Temperature            | 80.0         |             | °C      |             |
| Drying Time                   | 2.0 to 4.0   |             | hr      |             |
| Processing (Melt) Temp        | 260 to 290   |             | °C      |             |
| Mold Temperature              | 40.0 to 80.0 |             | °C      |             |
| NOTE                          |              |             |         |             |
| 1.                            | 10 K/min     |             |         |             |
| 2.                            | 20000 H      |             |         |             |

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