

# Badamid® PA612

Polyamide 612

Bada AG

## Message:

Badamid® PA612 is a Polyamide 612 (Nylon 612) material. It is available in Europe for injection molding. Primary attribute of Badamid® PA612: Flame Rated.

| General Information                     |          |                   |                   |                |
|-----------------------------------------|----------|-------------------|-------------------|----------------|
| Processing Method                       |          | Injection Molding |                   |                |
| Resin ID (ISO 1043)                     |          | >PA610<           |                   |                |
| Physical                                | Dry      | Conditioned       | Unit              | Test Method    |
| Density                                 | 1.07     | --                | g/cm <sup>3</sup> | ISO 1183       |
| Water Absorption                        |          |                   |                   | ISO 62         |
| Saturation, 23°C                        | 2.5      | --                | %                 |                |
| Equilibrium, 23°C, 50% RH               | 1.1      | --                | %                 |                |
| Mechanical                              | Dry      | Conditioned       | Unit              | Test Method    |
| Tensile Modulus (23°C)                  | 2200     | 2000              | MPa               | ISO 527-2/1    |
| Tensile Stress (Break, 23°C)            | 60.0     | 50.0              | MPa               | ISO 527-2/1A/5 |
| Tensile Strain (Break, 23°C)            | 50       | > 50              | %                 | ISO 527-2/1A/5 |
| Flexural Stress (23°C, 4.00 mm)         | 65.0     | --                | MPa               | ISO 178        |
| Impact                                  | Dry      | Conditioned       | Unit              | Test Method    |
| Charpy Notched Impact Strength          |          |                   |                   | ISO 179/1eA    |
| -30°C                                   | 7.0      | --                | kJ/m <sup>2</sup> |                |
| 23°C                                    | 9.0      | --                | kJ/m <sup>2</sup> |                |
| Charpy Unnotched Impact Strength (23°C) |          |                   |                   | ISO 179/1eU    |
|                                         | No Break | --                |                   |                |
| Thermal                                 | Dry      | Conditioned       | Unit              | Test Method    |
| Heat Deflection Temperature             |          |                   |                   |                |
| 0.45 MPa, Unannealed                    | 140      | --                | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                     | 65.0     | --                | °C                | ISO 75-2/A     |
| Melting Temperature (DSC)<br>1          | 218      | --                | °C                | ISO 3146       |
| Electrical                              | Dry      | Conditioned       | Unit              | Test Method    |
| Volume Resistivity (1.00 mm)            | 1.0E+12  | --                | ohms · cm         | IEC 60093      |
| 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 | 240 to 280   | °C   |
| Mold Temperature       | 60.0 to 90.0 | °C   |
| NOTE                   |              |      |
| 1.                     | 10 K/Min     |      |

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