

**Badamid® PA12 GF30 H LB**

PA12-GF30

Bada AG

| <b>Mechanical properties</b>          | <b>dry / cond</b> | <b>Unit</b>       | <b>Test Standard</b> |
|---------------------------------------|-------------------|-------------------|----------------------|
| <b>ISO Data</b>                       |                   |                   |                      |
| Tensile Modulus                       | <b>5700 / -</b>   | MPa               | ISO 527              |
| Stress at break                       | <b>85 / -</b>     | MPa               | ISO 527              |
| Strain at break                       | <b>4 / -</b>      | %                 | ISO 527              |
| Charpy impact strength, +23°C         | <b>60 / -</b>     | kJ/m <sup>2</sup> | ISO 179/1eU          |
| Charpy impact strength, -30°C         | <b>20 / -</b>     | kJ/m <sup>2</sup> | ISO 179/1eU          |
| Charpy notched impact strength, +23°C | <b>11 / -</b>     | kJ/m <sup>2</sup> | ISO 179/1eA          |

| <b>Thermal properties</b>                | <b>dry / cond</b> | <b>Unit</b> | <b>Test Standard</b> |
|--|-------------------|-------------|----------------------|
| <b>ISO Data</b>                          |                   |             |                      |
| Melting temperature, 10°C/min            | <b>178 / *</b>    | °C          | ISO 11357-1/-3       |
| Temp. of deflection under load, 1.80 MPa | <b>150 / *</b>    | °C          | ISO 75-1/-2          |
| Temp. of deflection under load, 0.45 MPa | <b>170 / *</b>    | °C          | ISO 75-1/-2          |
| Burning behav. at 1.5 mm nom. thickn.    | <b>HB / *</b>     | class       | IEC 60695-11-10      |
| Thickness tested                         | <b>1.5 / *</b>    | mm          | -                    |
| Burning behav. at thickness h            | <b>HB / *</b>     | class       | IEC 60695-11-10      |
| Thickness tested                         | <b>0.8 / *</b>    | mm          | -                    |

| <b>Other properties</b> | <b>dry / cond</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|-------------------|-------------------|----------------------|
| Density                 | <b>1230 / -</b>   | kg/m <sup>3</sup> | ISO 1183             |

| <b>Processing Recommendation Injection Molding</b> | <b>Value</b>     | <b>Unit</b> | <b>Test Standard</b> |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature                           | <b>80</b>        | °C          | -                    |
| Pre-drying - Time                                  | <b>4 - 8</b>     | h           | -                    |
| Processing humidity                                | <b>≤0.15</b>     | %           | -                    |
| Melt temperature                                   | <b>220 - 260</b> | °C          | -                    |
| Mold temperature                                   | <b>40 - 60</b>   | °C          | -                    |

**Characteristics****Processing**

Injection Molding

**Features**

Laser Markable, Thermal Stability

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa