

**Staramide BG5H**

PA6-GF25

Eurostar Engineering Plastics

| <b>Mechanical properties</b>                | <b>Value</b>           | <b>Unit</b>             | <b>Test Standard</b> |
|---|------------------------|-------------------------|----------------------|
| <b>ISO Data</b>                             |                        |                         |                      |
| Tensile Modulus                             | <b>7900</b>            | MPa                     | ISO 527              |
| Stress at break                             | <b>150</b>             | MPa                     | ISO 527              |
| Strain at break                             | <b>3.5</b>             | %                       | ISO 527              |
| Flexural modulus, 23°C                      | <b>7800</b>            | MPa                     | ISO 178              |
| Charpy impact strength, +23°C               | <b>50</b>              | kJ/m <sup>2</sup>       | ISO 179/1eU          |
| Izod notched impact strength, +23°C         | <b>10</b>              | kJ/m <sup>2</sup>       | ISO 180/1A           |
| Izod notched impact strength<br>Temperature | <b>7</b><br><b>-40</b> | kJ/m <sup>2</sup><br>°C | ISO 180/1A<br>-      |

| <b>Thermal properties</b>                         | <b>Value</b>             | <b>Unit</b> | <b>Test Standard</b> |
|---|--------------------------|-------------|----------------------|
| <b>ISO Data</b>                                   |                          |             |                      |
| Temp. of deflection under load, 1.80 MPa          | <b>210</b>               | °C          | ISO 75-1/-2          |
| Temp. of deflection under load, 0.45 MPa          | <b>220</b>               | °C          | ISO 75-1/-2          |
| Coeff. of linear therm. expansion, parallel       | <b>31</b>                | E-6/K       | ISO 11359-1/-2       |
| Coeff. of linear therm. expansion, normal         | <b>91</b>                | E-6/K       | ISO 11359-1/-2       |
| Burning behav. at thickness h<br>Thickness tested | <b>HB</b><br><b>3.0</b>  | class<br>mm | IEC 60695-11-10<br>- |
| Oxygen index                                      | <b>24</b>                | %           | ISO 4589-1/-2        |
| <b>ASTM Data</b>                                  |                          |             |                      |
| UL 94 Flame rating<br>Thickness tested            | <b>HB</b><br><b>0.75</b> | -<br>mm     | UL 94<br>-           |

| <b>Electrical properties</b> | <b>Value</b>    | <b>Unit</b> | <b>Test Standard</b> |
|------------------------------|-----------------|-------------|----------------------|
| <b>ISO Data</b>              |                 |             |                      |
| Relative permittivity, 1MHz  | <b>3.4</b>      | -           | IEC 62631-2-1        |
| Dissipation factor, 1MHz     | <b>160</b>      | E-4         | IEC 62631-2-1        |
| Volume resistivity           | <b>&gt;1E13</b> | Ohm*m       | IEC 62631-3-1        |
| Surface resistivity          | <b>&gt;1E15</b> | Ohm         | IEC 62631-3-2        |
| Electric strength            | <b>20</b>       | kV/mm       | IEC 60243-1          |
| Comparative tracking index   | <b>500</b>      | -           | IEC 60112            |

| <b>Other properties</b> | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|--------------|-------------------|----------------------|
| Water absorption        | <b>6.5</b>   | %                 | Sim. to ISO 62       |
| Density                 | <b>1310</b>  | kg/m <sup>3</sup> | ISO 1183             |

**Characteristics****Processing**

Injection Molding, Other Extrusion

**Features**

Low Odor

**Delivery form**

Pellets

**Regional Availability**

Europe

**Special Characteristics**

Heat stabilized or stable to heat