

Staramide BG6H

PA6

Eurostar Engineering Plastics

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|---------|---------------|
| ISO Data | | | |
| Thermal conductivity of melt | 0.33 | W/(m K) | - |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 9500 | MPa | ISO 527 |
| Stress at break | 160 | MPa | ISO 527 |
| Strain at break | 3.8 | % | ISO 527 |
| Flexural modulus, 23°C | 8000 | MPa | ISO 178 |
| Charpy impact strength, +23°C | 90 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | 75 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 11 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 9 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, +23°C | 11 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength | 9 | kJ/m ² | ISO 180/1A |
| Temperature | -40 | °C | - |
| Rockwell hardness | L 113 | - | ISO 2039-2 |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 205 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 220 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 215 | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 25 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 85 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at thickness h | HB | class | IEC 60695-11-10 |
| Thickness tested | 3.0 | mm | - |
| Oxygen index | 25 | % | ISO 4589-1/-2 |
| ASTM Data | | | |
| UL 94 Flame rating | HB | - | UL 94 |
| Thickness tested | 0.75 | mm | - |

| Electrical properties | Value | Unit | Test Standard |
|-----------------------------|-------|-------|---------------|
| ISO Data | | | |
| Relative permittivity, 1MHz | 3.3 | - | IEC 62631-2-1 |
| Dissipation factor, 1MHz | 160 | E-4 | IEC 62631-2-1 |
| Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | >1E15 | Ohm | IEC 62631-3-2 |
| Electric strength | 20 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 500 | - | IEC 60112 |

| Other properties | Value | Unit | Test Standard |
|---------------------|-------|-------------------|----------------|
| Water absorption | 6.5 | % | Sim. to ISO 62 |
| Humidity absorption | 1.7 | % | Sim. to ISO 62 |
| Density | 1370 | kg/m ³ | ISO 1183 |

Characteristics**Processing**

Injection Molding, Other Extrusion

Delivery form

Pellets

Special Characteristics

Heat stabilized or stable to heat

Features

Low Odor

Regional Availability

Europe