

## Eurostar Staramide BS6 PA6, 30% Glass Bead Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass Bead Filled

### Material Notes:

Staramide BS6 is a 30% Glass Bead Reinforced, Polyamide 6, Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurostar-Staramide-BS6-PA6-30-Glass-Bead-Filled-Injection-Molded.php](http://www.lookpolymers.com/polymer_Eurostar-Staramide-BS6-PA6-30-Glass-Bead-Filled-Injection-Molded.php)

| Physical Properties            | Metric                        | English                       | Comments                   |
|--------------------------------|-------------------------------|-------------------------------|----------------------------|
| Density                        | 1.35 g/cc                     | 0.0488 lb/in <sup>3</sup>     | ISO 1183                   |
| Water Absorption at Saturation | 6.5 %<br>@Temperature 23.0 °C | 6.5 %<br>@Temperature 73.4 °F | ISO 62                     |
| Linear Mold Shrinkage, Flow    | 0.010 - 0.015 cm/cm           | 0.010 - 0.015 in/in           | on Tensile Bar; E2P method |

| Mechanical Properties      | Metric                 | English                    | Comments            |
|----------------------------|------------------------|----------------------------|---------------------|
| Tensile Strength at Break  | 65.0 MPa               | 9430 psi                   | 5 mm/min; ISO 527   |
| Elongation at Break        | 10 %                   | 10 %                       | 5 mm/min; ISO 527   |
| Tensile Modulus            | 4.20 GPa               | 609 ksi                    | 1 mm/min; ISO 527   |
| Flexural Strength          | 108 MPa                | 15700 psi                  | 2 mm/min; ISO 178   |
| Flexural Modulus           | 4.10 GPa               | 595 ksi                    | 2 mm/min; ISO 178   |
| Izod Impact, Notched (ISO) | 5.00 kJ/m <sup>2</sup> | 2.38 ft-lb/in <sup>2</sup> | 80x10x4; ISO 180/1A |

| Thermal Properties                          | Metric                                      | English                                      | Comments                             |
|---|---|--|--------------------------------------|
| CTE, linear, Parallel to Flow               | 50.0 µm/m-°C<br>@Temperature 23.0 - 60.0 °C | 27.8 µin/in-°F<br>@Temperature 73.4 - 140 °F | ISO 11359-2                          |
| CTE, linear, Transverse to Flow             | 60.0 µm/m-°C<br>@Temperature 23.0 - 60.0 °C | 33.3 µin/in-°F<br>@Temperature 73.4 - 140 °F | ISO 11359-2                          |
| Deflection Temperature at 0.46 MPa (66 psi) | 195 °C                                      | 383 °F                                       | Edgew 120x10x4, sp=100 mm; ISO 75/Be |
| Deflection Temperature at 1.8 MPa (264 psi) | 85.0 °C                                     | 185 °F                                       | Edgew 120x10x4, sp=100 mm; ISO 75/Ae |
| Vicat Softening Point                       | 215 °C                                      | 419 °F                                       | B/120; ISO 306                       |
| Flammability, UL94                          | HB  | HB   |                                      |

| Thermal Properties | @Thickness 1.60 mm<br>Metric | @Thickness 0.0630 in<br>English | Comments |
|--------------------|------------------------------|---------------------------------|----------|
| Oxygen Index       | 24 %                         | 24 %                            | ISO 4589 |

| Processing Properties | Metric                                       | English                                | Comments |
|-----------------------|--|--|----------|
| Zone 1                | 230 - 240 °C                                 | 446 - 464 °F                           |          |
| Zone 2                | 240 - 250 °C                                 | 464 - 482 °F                           |          |
| Zone 3                | 240 - 270 °C                                 | 464 - 518 °F                           |          |
| Melt Temperature      | 240 - 270 °C                                 | 464 - 518 °F                           |          |
| Mold Temperature      | 60.0 - 80.0 °C                               | 140 - 176 °F                           |          |
| Drying Temperature    | 75.0 - 85.0 °C<br>@Time 14400 - 21600<br>sec | 167 - 185 °F<br>@Time 4.00 - 6.00 hour |          |
| Moisture Content      | 0.20 %                                       | 0.20 %                                 |          |

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