

## Hippe PA 6 G

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Cast

### Material Notes:

Thick-wall pre-forms, heavy semi-finished products. Transfusion of inserts (rolls, cores) and all types of large preforms. Information provided by Hippe.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hippe-PA-6-G.php](http://www.lookpolymers.com/polymer_Hippe-PA-6-G.php)

| Physical Properties                | Metric      | English     | Comments   |
|------------------------------------|-------------|-------------|--|
| Specific Gravity                   | 1.15 g/cc   | 1.15 g/cc   | DIN 53 479   |
| Moisture Absorption at Equilibrium | 2.5 %       | 2.5 %       | Absorption of humidity in standard operating environment; DIN 53 715 |
| Water Absorption at Saturation     | 6.0 - 7.0 % | 6.0 - 7.0 % | DIN 53 495   |

| Mechanical Properties            | Metric         | English            | Comments   |
|----------------------------------|----------------|--------------------|--|
| Ball Indentation Hardness        | 170 MPa        | 24700 psi          | DIN 53 456   |
|                                  | @Time 30.0 sec | @Time 0.00833 hour |  |
| Tensile Strength                 | 60.0 MPa       | 8700 psi           | cond.; DIN 53 455  |
|                                  | 85.0 MPa       | 12300 psi          | dry; DIN 53 455  |
| Elongation at Break              | 5.0 %          | 5.0 %              | dry; DIN 53 455  |
|                                  | 50 %           | 50 %               | cond.; DIN 53 455  |
| Tensile Modulus                  | 3.30 GPa       | 479 ksi            | cond.; DIN 53 457  |
|                                  | 4.00 GPa       | 580 ksi            | dry; DIN 53 457  |
| Coefficient of Friction, Dynamic | 0.36 - 0.43    | 0.36 - 0.43        | Against steel, p=0.05 N/mm <sup>2</sup> , v=0.6 m/s, hardened and ground |

| Thermal Properties               | Metric       | English                            | Comments                   |
|----------------------------------|--------------|------------------------------------|----------------------------|
| CTE, linear                      | 80.0 µm/m-°C | 44.4 µin/in-°F                     |                            |
| Thermal Conductivity             | 0.240 W/m-K  | 1.67 BTU-in/hr-ft <sup>2</sup> -°F |                            |
| Melting Point                    | 220 °C       | 428 °F                             | DIN 53 736                 |
| Maximum Service Temperature, Air | 100 °C       | 212 °F                             | Continuous use             |
|                                  | 180 °C       | 356 °F                             | Short Periods              |
| Glass Transition Temp, Tg        | 5.00 °C      | 41.0 °F                            | cond., dynamic; DIN 53 736 |

| Thermal Properties | Metric | English | Comments                 |
|--------------------|--------|---------|--------------------------|
| Flammability, UL94 | HB     | HB      | UL94, UL94V0, DIN 53 736 |

| Descriptive Properties        | Value                        | Comments                             |
|-------------------------------|------------------------------|--------------------------------------|
| Color                         | blue, nat., black            |                                      |
| Creep Resistance              | Grade CTI 600                | DIN 53 480, IEC-112, VDE 0303 Part 1 |
| Resistance to hot water, suds | resistant in some conditions |                                      |

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