

# Nylatron<sup>®</sup> GS-HS

## Property Data

PA66

MoS2 Lubricated, Heat Stabilized

| Properties                                | Typical Data           | Unit                 | Test Method     |
|---|------------------------|----------------------|-----------------|
| <b>MECHANICAL PROPERTIES</b>              |                        | dry / cond           |                 |
| Tensile modulus                           | <b>5.22E5 / 2.18E5</b> | psi                  | ISO 527-1/-2    |
| Yield stress                              | <b>13800 / 8700</b>    | psi                  | ISO 527-1/-2    |
| Yield strain                              | <b>3.5 / 20</b>        | %                    | ISO 527-1/-2    |
| Nominal strain at break                   | <b>10 / 25</b>         | %                    | ISO 527-1/-2    |
| Charpy notched impact strength (+23°C)    | <b>2.24 / -</b>        | ftlb/in <sup>2</sup> | ISO 179/1eA     |
| <b>THERMAL PROPERTIES</b>                 |                        | dry / cond           |                 |
| Temp. of deflection under load (1.80 MPa) | <b>185 / *</b>         | °F                   | ISO 75-1/-2     |
| Temp. of deflection under load (0.45 MPa) | <b>446 / *</b>         | °F                   | ISO 75-1/-2     |
| Burning Behav. at thickness h             | <b>HB / *</b>          | class                | IEC 60695-11-10 |
| Thickness tested                          | <b>0.0591 / *</b>      | in                   | IEC 60695-11-10 |
| <b>OTHER PROPERTIES</b>                   |                        | dry / cond           |                 |
| Water absorption                          | <b>8.5 / *</b>         | %                    | Sim. to ISO 62  |
| Humidity absorption                       | <b>2.3 / *</b>         | %                    | Sim. to ISO 62  |
| Density                                   | <b>72.4 / *</b>        | lb/ft <sup>3</sup>   | ISO 1183        |

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