

Stanyl[®] HGR3–W

PA46

Heat Stabilized, PFAS–free, Wear and Friction Modified

Print Date: 2026–04–09

| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--|---------------------|-------------------|--------------------|
| <i>RHEOLOGICAL PROPERTIES</i> | | | |
| <i>DRY / COND</i> | | | |
| Molding shrinkage [parallel] | 2 / * | % | Sim. to ISO 294–4 |
| Molding shrinkage [normal] | 2 / * | % | Sim. to ISO 294–4 |
| <i>MECHANICAL PROPERTIES</i> | | | |
| <i>DRY / COND</i> | | | |
| Tensile modulus | 2500 / 700 | MPa | ISO 527–1/–2 |
| Tensile modulus (120°C) | 560 / – | MPa | ISO 527–1/–2 |
| Tensile modulus (160°C) | 420 | MPa | ISO 527–1/–2 |
| Yield stress | 75 / – | MPa | ISO 527–1/–2 |
| Nominal strain at break | 35 / – | % | ISO 527–1/–2 |
| Nominal strain at break (120°C) | >50 | % | ISO 527–1/–2 |
| Nominal strain at break (160°C) | >50 | % | ISO 527–1/–2 |
| Stress at break | – / 60 | MPa | ISO 527–1/–2 |
| Stress at break (120°C) | 45 / – | MPa | ISO 527–1/–2 |
| Stress at break (160°C) | 33 | MPa | ISO 527–1/–2 |
| Flexural modulus | 2350 / 650 | MPa | ISO 178 |
| Flexural strength | 93 / 19 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | N / N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (–30°C) | N / N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 22 / 130 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 14 / 16 | kJ/m ² | ISO 179/1eA |
| <i>THERMAL PROPERTIES</i> | | | |
| <i>DRY / COND</i> | | | |
| Melting temperature (10°C/min) | 295 / * | °C | ISO 11357–1/–3 |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--|---------------------|-------------|--------------------|
| Temp. of deflection under load (1.80 MPa) | 75 / * | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 240 / * | °C | ISO 75–1/–2 |
| Coeff. of linear therm. expansion (parallel) | 0.9 / * | E–4/°C | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal) | 1.1 / * | E–4/°C | ISO 11359–1/–2 |

| <i>OTHER PROPERTIES</i> | <i>DRY / COND</i> | | |
|-------------------------|-------------------|-------------------|----------------|
| Humidity absorption | 3.7 / * | % | Sim. to ISO 62 |
| Density | 1140 / – | kg/m ³ | ISO 1183 |

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