

# Stanyl<sup>®</sup> TW261F5

## PA46–GF25

25% Glass Reinforced, Heat Stabilized

Print Date: 2024–09–17

| PROPERTIES                                   | TYPICAL DATA      | UNIT              | TEST METHOD    |
|--|-------------------|-------------------|----------------|
| <b>RHEOLOGICAL PROPERTIES</b>                |                   |                   |                |
|  | <b>DRY / COND</b> |                   |                |
| Molding shrinkage (parallel)                 | 0.5 / *           | %                 | ISO 294–4      |
| Molding shrinkage (normal)                   | 1.3 / *           | %                 | ISO 294–4      |
| <b>MECHANICAL PROPERTIES</b>                 |                   |                   |                |
|  | <b>DRY / COND</b> |                   |                |
| Tensile modulus                              | 8300 / –          | MPa               | ISO 527–1/–2   |
| Tensile modulus (120°C)                      | 4500 / –          | MPa               | ISO 527–1/–2   |
| Tensile modulus (180°C)                      | 3900              | MPa               | ISO 527–1/–2   |
| Stress at break                              | 175 / –           | MPa               | ISO 527–1/–2   |
| Stress at break (120°C)                      | 95 / –            | MPa               | ISO 527–1/–2   |
| Stress at break (180°C)                      | 75                | MPa               | ISO 527–1/–2   |
| Strain at break                              | 3 / –             | %                 | ISO 527–1/–2   |
| Strain at break (120°C)                      | 6 / –             | %                 | ISO 527–1/–2   |
| Strain at break (180°C)                      | 6                 | %                 | ISO 527–1/–2   |
| Flexural modulus                             | 8000 / –          | MPa               | ISO 178        |
| Flexural strength                            | 250 / –           | MPa               | ISO 178        |
| Charpy notched impact strength (+23°C)       | 11 / –            | kJ/m <sup>2</sup> | ISO 179/1eA    |
| <b>THERMAL PROPERTIES</b>                    |                   |                   |                |
|  | <b>DRY / COND</b> |                   |                |
| Melting temperature (10°C/min)               | 295 / *           | °C                | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa)    | 285 / *           | °C                | ISO 75–1/–2    |
| Coeff. of linear therm. expansion (parallel) | 0.25 / *          | E–4/°C            | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal)   | 0.5 / *           | E–4/°C            | ISO 11359–1/–2 |

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Property Data (Provisional)

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| <i>PROPERTIES</i>       | <i>TYPICAL DATA</i> | <i>UNIT</i>       | <i>TEST METHOD</i> |
|-------------------------|---------------------|-------------------|--------------------|
| <b>OTHER PROPERTIES</b> | <b>DRY / COND</b>   |                   |                    |
| Humidity absorption     | 2.6 / *             | %                 | Sim. to ISO 62     |
| Density                 | 1340 / –            | kg/m <sup>3</sup> | ISO 1183           |

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