

Stanyl[®] 46HF5145

PA46–GF43 FR

43% Glass Reinforced, Flame Retardant, for E8E applications

Print Date: 2024–09–17

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|-------------------|-------------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage [parallel] | 0.3 / * | % | Sim. to ISO 294–4 |
| Molding shrinkage [normal] | 0.85 / * | % | Sim. to ISO 294–4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 16000 / 11500 | MPa | ISO 527–1/–2 |
| Tensile modulus (120°C) | 10000 / – | MPa | ISO 527–1/–2 |
| Tensile modulus (160°C) | 7300 | MPa | ISO 527–1/–2 |
| Stress at break | 210 / 160 | MPa | ISO 527–1/–2 |
| Stress at break (120°C) | 120 / – | MPa | ISO 527–1/–2 |
| Stress at break (160°C) | 100 | MPa | ISO 527–1/–2 |
| Strain at break | 1.8 / 3 | % | ISO 527–1/–2 |
| Strain at break (120°C) | 3.3 / – | % | ISO 527–1/–2 |
| Strain at break (160°C) | 4.5 | % | ISO 527–1/–2 |
| Flexural modulus | 14500 / 11000 | MPa | ISO 178 |
| Flexural modulus (120°C) | 9500 | MPa | ISO 178 |
| Flexural modulus (160°C) | 7200 | MPa | ISO 178 |
| Flexural strength | 310 / 250 | MPa | ISO 178 |
| Flexural strength (120°C) | 200 | MPa | ISO 178 |
| Flexural strength (160°C) | 140 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 50 / 70 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 14 / 18 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | 16 / – | kJ/m ² | ISO 180/1A |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|---|---------------------|-------------|--------------------|
| THERMAL PROPERTIES | | | |
| <i>DRY / COND</i> | | | |
| Melting temperature (10°C/min) | 295 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 280 / * | °C | ISO 75-1/-2 |
| Burning Behav. at 3.0 mm nom. thickn. | V-0 / * | class | IEC 60695-11-10 |
| Thickness tested | 3 / * | mm | IEC 60695-11-10 |
| UL recognition | Yes / * | – | – |
| Relative Temperature Index – electrical | 65 | °C | UL746B |
| RTI electrical (Thickness (1) tested) | 3 | mm | UL746B |
| OTHER PROPERTIES | | | |
| <i>DRY / COND</i> | | | |
| Humidity absorption | 1.4 / * | % | Sim. to ISO 62 |
| Density | 1730 / – | kg/m³ | ISO 1183 |

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