

## Stanyl® TE250F3

## PA46-GF15 FR(17)

15% Glass Reinforced, Heat Stabilized, Flame Retardant

Print Date: 2017-11-03

| Properties                                   | Typical Data | Unit              | Test Method       |
|--|--------------|-------------------|-------------------|
| <b>Rheological properties</b> dry / cond     |              |                   |                   |
| Molding shrinkage [parallel]                 | 1 / *        | %                 | Sim. to ISO 294-4 |
| Molding shrinkage [normal]                   | 1.5 / *      | %                 | Sim. to ISO 294-4 |
| <b>Mechanical properties</b> dry / cond      |              |                   |                   |
| Tensile modulus                              | 8000 / -     | MPa               | ISO 527-1/-2      |
| Stress at break                              | 140 / -      | MPa               | ISO 527-1/-2      |
| Strain at break                              | 3 / -        | %                 | ISO 527-1/-2      |
| Flexural modulus                             | 7500 / -     | MPa               | ISO 178           |
| Charpy impact strength (+23°C)               | 40 / 50      | kJ/m <sup>2</sup> | ISO 179/1eU       |
| Charpy impact strength (-30°C)               | 40 / 40      | kJ/m <sup>2</sup> | ISO 179/1eU       |
| Charpy notched impact strength (+23°C)       | 6 / 10       | kJ/m <sup>2</sup> | ISO 179/1eA       |
| Charpy notched impact strength (-30°C)       | 6 / 6        | kJ/m <sup>2</sup> | ISO 179/1eA       |
| Izod notched impact strength (+23°C)         | 6 / 10       | kJ/m <sup>2</sup> | ISO 180/1A        |
| Izod notched impact strength (-40°C)         | 6 / 6        | kJ/m <sup>2</sup> | ISO 180/1A        |
| <b>Thermal properties</b> dry / cond         |              |                   |                   |
| Melting temperature (10°C/min)               | 295 / *      | °C                | ISO 11357-1/-3    |
| Temp. of deflection under load (1.80 MPa)    | 290 / *      | °C                | ISO 75-1/-2       |
| Temp. of deflection under load (0.45 MPa)    | 290 / *      | °C                | ISO 75-1/-2       |
| Coeff. of linear therm. expansion (parallel) | 0.4 / *      | E-4/°C            | ISO 11359-1/-2    |
| Coeff. of linear therm. expansion (normal)   | 0.6 / *      | E-4/°C            | ISO 11359-1/-2    |
| Burning Behav. at 1.5 mm nom. thickn.        | V-0 / *      | class             | IEC 60695-11-10   |
| Thickness tested                             | 1.5 / *      | mm                | IEC 60695-11-10   |

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| Properties                              | Typical Data      | Unit              | Test Method     |
|---|-------------------|-------------------|-----------------|
| UL recognition                          | Yes / *           | -                 | -               |
| Burning Behav. at thickness h           | V-0 / *           | class             | IEC 60695-11-10 |
| Thickness tested                        | 0.9 / *           | mm                | IEC 60695-11-10 |
| UL recognition                          | Yes / *           | -                 | -               |
| Relative Temperature Index - electrical | 130               | °C                | UL746B          |
| RTI electrical (Thickness (1) tested)   | 0.9               | mm                | UL746B          |
| <b>Electrical properties</b>            | <b>dry / cond</b> |                   |                 |
| Electric strength                       | 30 / 20           | kV/mm             | IEC 60243-1     |
| Comparative tracking index              | 175 / -           | V                 | IEC 60112       |
| <b>Other properties</b>                 | <b>dry / cond</b> |                   |                 |
| Humidity absorption                     | 1.9 / *           | %                 | Sim. to ISO 62  |
| Density                                 | 1520 / -          | kg/m <sup>3</sup> | ISO 1183        |

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