

Stanyl® TE250F6

Property Data

PA46-GF30 FR(17)

30% Glass Reinforced, Heat Stabilized, Flame Retardant

| Properties | Typical Data | Unit | Test Method |
|--|--------------|-------------------|------------------------|
| RHEOLOGICAL PROPERTIES | | | |
| | dry / cond | | |
| Molding shrinkage [parallel] | 0.4 / * | % | Sim. to ISO 294-4 |
| Molding shrinkage [normal] | 1.1 / * | % | Sim. to ISO 294-4 |
| MECHANICAL PROPERTIES | | | |
| | dry / cond | | |
| Tensile modulus | 12000 / 8000 | MPa | ISO 527-1/-2 |
| Tensile modulus (120°C) | 7500 | MPa | ISO 527-1/-2 |
| Tensile modulus (160°C) | 6200 | MPa | ISO 527-1/-2 |
| Stress at break | 180 / 125 | MPa | ISO 527-1/-2 |
| Stress at break (120°C) | 105 | MPa | ISO 527-1/-2 |
| Stress at break (160°C) | 95 | MPa | ISO 527-1/-2 |
| Strain at break | 2.5 / 3.5 | % | ISO 527-1/-2 |
| Strain at break (120°C) | 4 | % | ISO 527-1/-2 |
| Strain at break (160°C) | 4 | % | ISO 527-1/-2 |
| Flexural modulus | 11000 / 7300 | MPa | ISO 178 |
| Flexural modulus (120°C) | 6500 | MPa | ISO 178 |
| Flexural modulus (160°C) | 5000 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 60 / 60 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 50 / 50 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 11 / 11 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 10 / 10 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength (23°C) | 11 / 11 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength (-40°C) | 11 / 11 | kJ/m ² | ISO 180/1A |
| THERMAL PROPERTIES | | | |
| | 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 |
| Coeff. of linear therm. expansion (parallel) | 0.25 / * | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 0.55 / * | 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 |
| UL recognition | UL / * | - | - |
| Burning Behav. at thickness h | V-0 / * | class | IEC 60695-11-10 |
| Thickness tested | 0.35 / * | mm | IEC 60695-11-10 |
| UL recognition | UL / * | - | - |
| Relative Temperature Index - electrical | 140 | °C | UL746B |
| RTI electrical (Thickness (1) tested) | 1.5 | mm | UL746B |
| Thermal Index 5000 hrs | 163 | °C | IEC 60216/ISO 527-1/-2 |
| ELECTRICAL PROPERTIES | | | |
| | dry / cond | | |
| Volume resistivity | 1E13 / 1E8 | Ohm*m | IEC 60093 |

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| | | | |
|----------------------------|----------------|-------|-------------|
| Electric strength | 30 / 20 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 225 / - | - | IEC 60112 |

OTHER PROPERTIES

dry / cond

| | | | |
|---------------------|-----------------|-------------------|----------------|
| Humidity absorption | 1.6 / * | % | Sim. to ISO 62 |
| Density | 1680 / - | kg/m ³ | ISO 1183 |

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