

Stanyl[®] TE200S6

PA46-GB30

30% Glass Beads Reinforced, Heat Stabilized, Low Warpage

Print Date: 2024-03-27

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--------------------------------------|-------------------|-------------------|-------------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage [parallel] | 1.3 / * | % | Sim. to ISO 294-4 |
| Molding shrinkage [normal] | 1.7 / * | % | Sim. to ISO 294-4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 4700 / 2400 | MPa | ISO 527-1/-2 |
| Tensile modulus (120°C) | 1000 / - | MPa | ISO 527-1/-2 |
| Tensile modulus (160°C) | 900 | MPa | ISO 527-1/-2 |
| Tensile modulus (180°C) | 800 | MPa | ISO 527-1/-2 |
| Tensile modulus (200°C) | 740 | MPa | ISO 527-1/-2 |
| Stress at break | 90 / 60 | MPa | ISO 527-1/-2 |
| Stress at break (120°C) | 45 / - | MPa | ISO 527-1/-2 |
| Stress at break (160°C) | 35 | MPa | ISO 527-1/-2 |
| Stress at break (180°C) | 32 | MPa | ISO 527-1/-2 |
| Stress at break (200°C) | 30 | MPa | ISO 527-1/-2 |
| Strain at break | 4.5 / 14 | % | ISO 527-1/-2 |
| Strain at break (120°C) | 30 / - | % | ISO 527-1/-2 |
| Strain at break (160°C) | 29 | % | ISO 527-1/-2 |
| Strain at break (180°C) | 28 | % | ISO 527-1/-2 |
| Strain at break (200°C) | 27 | % | ISO 527-1/-2 |
| Izod notched impact strength (+23°C) | 4 / 9 | kJ/m ² | ISO 180/1A |
| THERMAL PROPERTIES | | | |
| | DRY / COND | | |
| 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) | 235 / * | °C | ISO 75-1/-2 |

ELECTRICAL PROPERTIES

DRY / COND

| | | | |
|-------------------------------|------------|-------|-----------------|
| Volume resistivity | 1E13 / 1E9 | Ohm*m | IEC 62631-3-1 |
| Electric strength | 35 / 25 | kV/mm | IEC 60243-1 |
| Relative permittivity (100Hz) | 4.4 / 12 | – | IEC 62631-2-1 |
| Relative permittivity (1 MHz) | 4 / 4.6 | – | IEC 62631-2-1 |
| Relative permittivity (1GHz) | 3.6 / – | – | IEC 61189-2-721 |

OTHER PROPERTIES

DRY / COND

| | | | |
|---------------------|----------|-------|----------------|
| Humidity absorption | 2.6 / * | % | Sim. to ISO 62 |
| Density | 1410 / – | kg/m³ | ISO 1183 |

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