

Stanyl® TC551

PA46 FR(17)

Thermal conductive material, Flame Retardant

Print Date: 2019-04-05

| Properties | Typical Data | Unit | Test Method |
|--|--------------|-------------------|-----------------|
| Rheological properties dry / cond | | | |
| Molding shrinkage (parallel) | 0.6 / * | % | ISO 294-4 |
| Molding shrinkage (normal) | 1 / * | % | ISO 294-4 |
| Mechanical properties dry / cond | | | |
| Tensile modulus | 7000 / - | MPa | ISO 527-1/-2 |
| Stress at break | 45 / - | MPa | ISO 527-1/-2 |
| Strain at break | 1 / - | % | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | 2.2 / - | kJ/m ² | ISO 179/1eU |
| Thermal properties dry / cond | | | |
| Thermal conductivity in plane | 14 | W/(m K) | ASTM E1461 |
| Thermal conductivity through plane | 2.1 | W/(m K) | ASTM E1461 |
| 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 | Yes / * | - | - |
| Burning Behav. at thickness h | V-0 / * | class | IEC 60695-11-10 |
| Thickness tested | 0.75 / * | mm | IEC 60695-11-10 |
| UL recognition | Yes / * | - | - |
| Relative Temperature Index - electrical | 65 | °C | UL746B |
| RTI electrical (Thickness (1) tested) | 0.75 | mm | UL746B |
| Electrical properties dry / cond | | | |
| Volume resistivity | 10000 / - | Ohm*m | IEC 60093 |

Property Data (Provisional)

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|-------------------------|-------------------|-------------------|----------------|
| Other properties | dry / cond | | |
| Humidity absorption | 1.1 / * | % | Sim. to ISO 62 |
| Density | 1520 / - | kg/m ³ | ISO 1183 |