

SUSTAPEI® & SUSTAPEI GF 30® (Ultem®)

| | Test Method | Unit | Natural Value | Value GF 30 |
|--------------------------------------|-------------|----------|-------------------------|----------------------|
| Physical properties | | | | |
| Specific Gravity | ASTM D 792 | - | 1.27 | 1.54 |
| Water Absorption 24 Hrs | ASTM D 570 | % | 0.25 | 0.2 |
| Water Absorption Saturation | ASTM D 570 | % | 1.25 | 0.8 |
| Flammability | UL 94 | - | V-0 | HB |
| Mechanical properties | | | | |
| Tensile Strength, break | ASTM D 638 | psi | 16,700 | 20,000 |
| Elongation | ASTM D 638 | % | 80 | 3 |
| Modulus | ASTM D 638 | psi | 480,000 | 900,000 |
| Flexural Strength | ASTM D 790 | psi | 20,000 | 33,000 |
| Modulus | ASTM D 790 | psi | 500,000 | 950,000 |
| Notched Izod | ASTM D 256 | Ft-lb/in | 0.6 | 1 |
| Rockwell Hardness | ASTM D 785 | - | M114 | M115 |
| Thermal properties | | | | |
| HDT @ 264 psi | ASTM D 648 | °F | 395 | 410 |
| Coefficient Linear Thermal Expansion | ASTM D 696 | in/in/oF | 3.10 x 10 ⁻⁵ | 1.1x10 ⁻⁵ |
| Dielectric Strength | ASTM D 149 | V / mil | 830 | 770 |
| Volume Resistivity | ASTM D 257 | Ohm-cm | 10 ¹⁶ | 10 ¹⁶ |
| Dielectric Constant | ASTM D 150 | - | 3.2 | 3.7 |

The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.

