

Technisches Datenblatt

SustaPEI - ASTM

Typische Eigenschaften

- Hohe Steifigkeit auch bei hohen Temperaturen
- Sehr geringe Rauchentwicklung
- Gute Beständigkeit gegen energiereiche Strahlung

Typische Industrien

- Luft- und Raumfahrt
- Elektroindustrie
- Healthcare
- Semiconductor Wafer Handling
- Semiconductor Hohe und tiefe Temperatur
- Semiconductor Back-End-Anwendungen

| | Testverfahren | Einheit | Wert |
|----------------------------------|---------------|---------------------|--------|
| Allgemeine Eigenschaften | | | |
| Dichte | ASTM D792 | g / cm ³ | 1.27 |
| Water Absorption 24 hours | ASTM D570 | % | 0.25 |
| Dissipation Factor | ASTM D150 | 1MHz | 0.001 |
| Water Absorption Saturation | ASTM D570 | % | 1.25 |
| Mechanische Eigenschaften | | | |
| Härte | ASTM D2240 | Shore D | 86 |
| Tensile Strength at yield 73°F | ASTM D638 | psi | 16700 |
| Tensile Modulus | ASTM D638 | psi | 480000 |
| Reißdehnung | ASTM D638 | % | 60* |
| Flexural Strength | ASTM D790 | psi | 20000 |
| Flexural Modulus | ASTM D790 | psi | 500000 |
| Compressive Strength | ASTM D695 | psi | 22000 |
| Rockwell Hardness | ASTM D785 | | 114 |
| Rockwell Hardness | ASTM D785 | R | 123 |
| Shear Strength | ASTM D732 | psi | 15000 |
| Izod Impact, Notched | ASTM D256 | ft-lb/in | 0.6 |
| Coefficient of Friction, Dynamic | | | 0.2 |



| | Testverfahren | Einheit | Wert |
|---|---------------|----------------------------|-------------------|
| Thermische Eigenschaften | | | |
| Wärmeleitfähigkeit | | in/hr/ft ² /°F | 1 |
| Coefficient of Linear Thermal Expansion | ASTM D696 | in/in/°F x10 ⁻⁵ | 3.1 |
| Melting Point | ASTM D789 | °F | 460 |
| Continuous Service Temperature, Air | | °F | 340 |
| Deflection Temperature at 1.8Mpa (264psi) | ASTM D648 | °F | 395 |
| Deflection Temperature at 1.8Mpa (66psi) | ASTM D648 | °F | 405 |
| Flammability, UL94 | | 1/8 inch | V-0 |
| Elektrische Eigenschaften | | | |
| Dielektrizitätszahl | ASTM D150 | 1MHz | 3.2 |
| Durchschlagfestigkeit | ASTM D149 | V/mil | 830 |
| Oberflächenwiderstand | ASTM D257 | Ω/cm | >10 ¹³ |
| Compliance properties | | | |
| FDA | | | Yes |
| NSF | | | No |
| USDA | | | Yes |

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

*These are the typical value of the resin tested by Sabic, and results from semi-finished goods would have to be run and results could vary.

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