

Technical Data Sheet

SustaPEI GF 30 natural

PEI

Typical characteristics

- High heat deflection temperature
- Flame retardant
- Low smoke development
- High stiffness
- High tensile strength
- High hardness
- high dimensional stability under heat

Typical industries

- Electronics
- Healthcare
- Aerospace

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,51
Water absorption	DIN EN ISO 62	%	0,4
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	120
Elongation at break	DIN EN ISO 527	%	4
Tensile modulus of elasticity	DIN EN ISO 527	MPa	5000
Shore hardness	DIN EN ISO 868	scale D	92
Thermal properties			
Melting temperature	ISO 11357-3	°C	-
Glass transition temperature	ISO 11357-3	°C	217
Service temperature, long term	Average	°C	-30 ... 170
Service temperature, short term (max.)	Average	°C	210
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	210
Electrical properties			
Dielectric constant	IEC 60250		3,3
Dielectric dissipation factor (50 Hz)	IEC 60250		0,0016



	Test method	Unit	Guideline value
Volume resistivity	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	10^{15}
Surface resistivity	DIN EN 62631-3-2	Ω	10^{15}
Comparative tracking index	IEC 60112		150
Dielectric strength	IEC 60243	kV / mm	35

