

Technical Data Sheet

SustaECTFE natural

E-CTFE

Typical characteristics

- Flame retardant
- High purity
- High tensile strength
- High stiffness
- High cold impact strength
- High continuous service temperature
- Chemical resistant
- Good weather resistance

Typical industries

- Chemical Processing Industry
- Clean-Room Technology
- Electronics
- Bakery and Confectionery
- Chemical storage tanks
- Meat, Fish and Poultry Processing
- Food Industry

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,71
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	30
Elongation at break	DIN EN ISO 527	%	250
Tensile modulus of elasticity	DIN EN ISO 527	MPa	1500
Shore hardness	DIN EN ISO 868	scale D	71
Thermal properties			
Melting temperature	ISO 11357-3	°C	230
Thermal conductivity	DIN 52612-1	W / (m * K)	0,15
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	90
Service temperature, long term	Average	°C	-50 ... 150
Service temperature, short term (max.)	Average	°C	180
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	70
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	10 ¹⁵
Surface resistivity	DIN EN 62631-3-2	Ω	10 ¹³



	Test method	Unit	Guideline value
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	15

