Röchling

Industrial

Technical Data Sheet

SustaPVDF FG natural

PVDF

Typical characteristics

- High purity
- 1935/2004/EC compliant
- High tensile strength
- High stiffness
- High cold impact strength
- Good weldability
- High continuous service temperature
- Electrically insulating
- Good thermoformability
- Good weather resistance

Typical industries

- Bakery and Confectionery
- Meat, Fish and Poultry Processing
- Beverage Industry
- Food Industry
- Mechanical Engineering Industry

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm^3	1,78
Water absorption	DIN EN ISO 62	%	0,0
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	55
Elongation at break	DIN EN ISO 527	%	30
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2100
Notched impact strength	DIN EN ISO 179	kJ / m^2	12
Shore hardness	DIN EN ISO 868	scale D	80
Thermal properties			
Melting temperature	ISO 11357-3	°C	178
Thermal conductivity	DIN 52612-1	W / (m * K)	0,2
Thermal capacity	DIN 52612	kJ / (kg * K)	1,20
Coefficient of linear thermal expansion	DIN 53752	10^{-6} / K	140
Service temperature, long term	Average	°C	-20 ... 140
Service temperature, short term (max.)	Average	°C	150

	Test method	Unit	Guideline value
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	115
Electrical properties			
Dielectric constant	IEC 60250		9
Dielectric dissipation factor (50 Hz)	IEC 60250		0,02
Volume resistivity	DIN EN 62631-3-1	Ω * cm	10^{14}
Surface resistivity	DIN EN 62631-3-2	Ω	10^{14}
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	21