

Technical Data Sheet

Trovidur[®] ES FB

PVC-U

Typical characteristics

- Easy processing, particularly by sewing or tacking, but also by welding, thermoforming and glueing
- Flame retardant
- Self-Extinguishing after removal of the flame
- High breaking strength
- High bending strength
- RoHS compliant
- ELV compliant
- WEEE compliant
- RLAP compliant
- Good impact strength

Typical industries

- Mechanical Engineering Industry
- Vacuum Forming
- Bus

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,41
Water absorption	DIN EN ISO 62	%	0,20
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	48
Elongation at break	DIN EN ISO 527	%	20
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2500
Notched impact strength	DIN EN ISO 179	kJ / m ²	8
Shore hardness	DIN EN ISO 868	scale D	77
Ball indentation hardness	DIN EN ISO 2039-1	MPa	100
Thermal properties			
Thermal conductivity	DIN EN ISO 8302	W / (m * K)	0,16
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	75
Service Temperature		°C	-20 ... +60



	Test method	Unit	Guideline value
Heat deflection temperature	DIN EN ISO 75	°C	70
Coefficient of linear thermal expansion	DIN EN ISO 11359-2	mm/m K	~ 0,075
Electrical properties			
Dielectric constant	IEC 60250		3,2
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250		0,02
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 ¹⁵
Surface resistivity	DIN EN 62631-3-2	Ω	>10 ¹³

