

Technical Data Sheet

Trovidur[®] ESA

PVC-U

Typical characteristics

- UV-resistant in colour white
- High impact resistance
- RoHS compliant
- ELV compliant
- WEEE compliant
- RLAP compliant
- Flame retardant
- Light-opaque in white
- Vacuum formable

Typical industries

- Building industry

	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
Flammability (Thickness 1 ... 4 mm)	DIN 4102		B1
VOC	ISO 16.000	conform	-
Flammability (Thickness 2,5 mm)	BS 476 Part 6		Class 0
Flammability (Thickness 1 ... 4 mm)	NF P 92-501		M1
Flammability (Thickness 2 ... 4 mm)	BS 476 Part 7		Class 1
Flammability (Thickness 2,5 mm)	EN 13501-1		B s3 d0
Flammability (Thickness 4 mm)	EN 13501-1		B s3 d2
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	45
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	80
Ball indentation hardness	DIN EN ISO 2039-1	MPa	110
Compressive strength	DIN EN ISO 604	MPa	65



	Test method	Unit	Guideline value
Bending strength	DIN EN ISO 178	MPa	60
Thermal properties			
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	75
Service Temperature		°C	-20 ... +60
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
Dielectric strength	IEC 60243	kV / mm	12
Comparative tracking index	IEC 60112	CTI	600

