

Technical Data Sheet

Trovidur® ESA-S

PVC-U

Typical characteristics

- Swimming pool Approval
- High impact resistance
- UV-resistant
- Weatherability
- RoHS compliant
- ELV compliant
- WEEE compliant
- RLAP compliant
- High cold impact strength
- Good weldability
- Good thermoformability
- Good glueability

Typical industries

- Pool gratings - Swimming pool grating
- Sports & Leisure

	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
Flammability (Thickness 1 ... 4 mm)	NF P 92-501		M1
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
Bending strength	DIN EN ISO 178	MPa	60
Thermal properties			
Thermal conductivity	DIN EN ISO 8302	W / (m * K)	0,16

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	Test method	Unit	Guideline value
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

The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale. Information on the REACH regulation can be found in our Product Handling Information Sheets, in our REACH information letter as well as in the SCIP database.