

### Technical Data Sheet

## Trovidur<sup>®</sup> ES grey

PVC-U

#### Typical characteristics

- High impact resistance
- Flame retardant
- Self-Extinguishing after removal of the flame
- Good weldability
- Good thermoformability
- Good glueability
- Glossy surface
- Both sides smooth Surface
- RoHS compliant
- ELV compliant
- WEEE compliant
- RLAP compliant
- Vacuum formable

#### Typical industries

- Mechanical Engineering Industry
- Vacuum Forming
- Building industry

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,41
Water absorption	DIN EN ISO 62	%	0,20
Flammability (Thickness 1 ... 2 mm)	DIN 4102		B1
<b>Mechanical properties</b>			
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 <sup>2</sup>	8
Shore hardness	DIN EN ISO 868	scale D	80
Ball indentation hardness	DIN EN ISO 2039-1	MPa	100
Compressive strength	DIN EN ISO 604	MPa	65
Bending strength	DIN EN ISO 178	MPa	65
<b>Thermal properties</b>			



	Test method	Unit	Guideline value
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
Heat deflection temperature	DIN EN ISO 75	°C	70
Coefficient of linear thermal expansion	DIN EN ISO 11359-2	mm/m K	~ 0,075
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		3,2
Dielectric dissipation factor (10 <sup>6</sup> Hz)	IEC 60250		0,02
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 <sup>15</sup>
Surface resistivity	DIN EN 62631-3-2	Ω	>10 <sup>13</sup>
Dielectric strength	IEC 60243	kV / mm	12
Comparative tracking index	IEC 60112	CTI	600

