

## Technical Data Sheet

# Trovidur<sup>®</sup> EC N black

PVC-U

### Typical characteristics

- Good resistance to acids, lyes and salt solutions
- Good weldability
- Good glueability
- Good thermoformability
- Electrically insulating
- Easy processing
- Self-Extinguishing after removal of the flame
- Good impact strength

### Typical industries

- Chemical Processing Industry
- Mechanical Engineering Industry
- Chemical storage tanks
- Ventilation plants
- Switchgear
- Drinking & Waste Water Technology

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,44
Water absorption	DIN EN ISO 62	%	0,2
Flammability (Thickness 1 ... 4 mm)	DIN 4102		B1
Flammability from 3 mm	UL 94		V0, 5VA
Flammability from 1 mm	UL 94		V0, 5VB
Flammability (Thickness 1 ... 10 mm)	NF P 92-501		M1
Flammability (Thickness 1,5 ... 12 mm)	BS 476 Part 6		Class 0
Flammability (Thickness 1,5 ... 12 mm)	BS 476 Part 7		Class 1
Flammability (Thickness 1,5 ... 6 mm)	EN 13501-1		B -s3d0
WRAS (Thickness 1 ... 6 mm), grey	BS6920-1		listed
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	55
Elongation at break	DIN EN ISO 527	%	20
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3000
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	4
Shore hardness	DIN EN ISO 868	scale D	82
Ball indentation hardness	DIN EN ISO 2039-1	MPa	110

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	Test method	Unit	Guideline value
Compressive strength	DIN EN ISO 604	MPa	75
Bending strength	DIN EN ISO 178	MPa	80
<b>Thermal properties</b>			
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	- 15 ... + 60
Heat deflection temperature	DIN EN ISO 75	°C	68
Coefficient of linear thermal expansion	DIN EN ISO 11359-2	mm/m K	~ 0,075
Glow wire ignition temperature	DIN EN 60695-2-13	°C	925
Glow wire flammability index	DIN EN 60695-2-12	°C	960
<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

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