Technical Data Sheet

Trovidur® EC-N - ASTM

PVC-U

Typical characteristics

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

Typical industries

- Chemical Processing Industry
- Chemical storage tanks
- Mechanical Engineering Industry

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm³	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
Mechanical properties			
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 / m²	4
Shore hardness	DIN EN ISO 868	scale D	82
Ball indentation hardness	DIN EN ISO 2039-1	MPa	110
Compressive strength	DIN EN ISO 604	MPa	75
Bending strength	DIN EN ISO 178	MPa	80

	Test method	Unit	Guideline value
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
Heat deflection temperature	DIN EN ISO 75	°C	70
Coefficient of linear thermal expansion	DIN EN ISO 11359-2	mm/m K	~ 0.075
Glow wire ignition tempearture	DIN EN 60695-2-13	°C	925
Glow wire flammability index	DIN EN 60695-2-12	°C	960
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