Technical Data Sheet

Trovidur® EC N orange

Typical characteristics

- High chemical resistance to acids, lyes and salt solutions
- Good weldability and glueability
- Very good electrical insulation properties
- Easy processing
- Vacuum formable
- Self-Extinguishing after removal of the flame
- Good impact strength

Typical industries

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

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm^3	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 / m^2	4
Shore hardness	DIN EN ISO 868	scale D	82

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	Test method	Unit	Guideline value
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
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	- 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 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	Ohm * cm	>10^{15}
Surface resistivity	DIN EN 62631-3-2	Ohm	>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.

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