

Technical Data Sheet

Trovidur[®] EC-N - ASTM

Typical characteristics

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

Typical industries

- 화학 가공 산업
- 화학물질 저장 탱크
- 기계 공학 산업

	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
Ball indentation hardness	DIN EN ISO 2039-1	MPa	110

Röchling Industrial Gastonia, LP

903 Gastonia Technology Parkway • 28034 Dallas/United States (US) • Tel. +1 704 922-7814
info.gastonia@roechling.com • www.roechling.com/industrial/rep-us

Print: 27/07/2024 • Release: 14/05/2024 • Version: 1.0

PIM-Version: 45 • PIM-ID: 753740 • PIM-Code: 45-4-10.10.10.11.161.10-7.7.5

Page 1 / 2 (Dates in DD/MM/YYYY)



	Test method	Unit	Guideline value
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	- 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 temperature	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		>10 ¹³
Dielectric strength	IEC 60243	kV / mm	12
Comparative tracking index	IEC 60112	CTI	600

Röchling Industrial Gastonia, LP

903 Gastonia Technology Parkway • 28034 Dallas/United States (US) • Tel. +1 704 922-7814
 info.gastonia@roechling.com • www.roechling.com/industrial/rep-us

Print: 27/07/2024 • Release: 14/05/2024 • Version: 1.0

PIM-Version: 45 • PIM-ID: 753740 • PIM-Code: 45-4-10.10.10.11.161.10-7.7.5

Page 2 / 2 (Dates in DD/MM/YYYY)

