# Technical Data Sheet

# Trovidur® EC N grey

PVC-U

## Typical characteristics

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

## Typical industries

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

| | 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 |

| | 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 | - 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 | 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 |

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.