

## Technical Data Sheet

## Trovidur® PVC-U black

PVC-U

### Typical characteristics

- Flame retardant
- Self-Extinguishing after removal of the flame
- High rigidity
- Electrically insulating
- Good resistance to acids, lyes and salt solutions
- Good weldability
- Good thermoformability
- Good glueability
- Good printability
- Chemical resistant

### Typical industries

- Electronics
- Chemical Processing Industry
- Chemical storage tanks

|                                         | Test method       | Unit                 | Guideline value |
|-----------------------------------------|-------------------|----------------------|-----------------|
| <b>General properties</b>               |                   |                      |                 |
| Density                                 | DIN EN ISO 1183-1 | g / cm <sup>3</sup>  | 1,45            |
| Flammability (Thickness 3 mm / 6 mm)    | UL 94             |                      | V0 / V0         |
| <b>Mechanical properties</b>            |                   |                      |                 |
| Yield stress                            | DIN EN ISO 527    | MPa                  | 45              |
| Elongation at break                     | DIN EN ISO 527    | %                    | 15              |
| Tensile modulus of elasticity           | DIN EN ISO 527    | MPa                  | 3000            |
| Notched impact strength                 | DIN EN ISO 179    | kJ / m <sup>2</sup>  | 2               |
| Shore hardness                          | DIN EN ISO 868    | scale D              | 79              |
| <b>Thermal properties</b>               |                   |                      |                 |
| Thermal conductivity                    | DIN 52612-1       | W / (m * K)          | 0,2             |
| Coefficient of linear thermal expansion | DIN 53752         | 10 <sup>-6</sup> / K | 80              |
| Service temperature, long term          | Average           | °C                   | 0 ... 60        |
| Service temperature, short term (max.)  | Average           | °C                   | 70              |
| <b>Electrical properties</b>            |                   |                      |                 |
| Dielectric constant                     | IEC 60250         |                      | 3               |



|                                            | Test method      | Unit                     | Guideline value |
|--------------------------------------------|------------------|--------------------------|-----------------|
| Dielectric dissipation factor ( $10^6$ Hz) | IEC 60250        |                          | 0,02            |
| Volume resistivity                         | DIN EN 62631-3-1 | $\Omega \cdot \text{cm}$ | $10^{15}$       |
| Surface resistivity                        | DIN EN 62631-3-2 | $\Omega$                 | $10^{13}$       |

