

### Technical Data Sheet

## Trovidur® ESV-TRX

PVC-U

#### Typical characteristics

- High impact resistance
- UV-resistant
- Weatherability
- Good stretching properties for thermoforming
- RoHS compliant
- ELV compliant
- WEEE compliant
- RLAP compliant
- High cold impact strength
- Good surface quality
- Flame retardant
- Self-Extinguishing after removal of the flame
- Good vacuum forming properties

#### Typical industries

- Building industry

|                                 | Test method        | Unit                | Guideline value |
|---------------------------------|--------------------|---------------------|-----------------|
| <b>General properties</b>       |                    |                     |                 |
| Density                         | DIN EN ISO 1183-1  | g / cm <sup>3</sup> | 1,41            |
| Water absorption                | DIN EN ISO 62      | %                   | 0,20            |
| Flammability (Thickness 1,5 mm) | BS 476 Part 7 (GB) |                     | Class 1         |
| VOC                             | ISO 16.000         | conform             | A+              |
| <b>Mechanical properties</b>    |                    |                     |                 |
| Yield stress                    | DIN EN ISO 527     | MPa                 | 45              |
| Elongation at break             | DIN EN ISO 527     | %                   | 20              |
| Tensile modulus of elasticity   | DIN EN ISO 527     | MPa                 | 2500            |
| Notched impact strength         | DIN EN ISO 179     | kJ / m <sup>2</sup> | 8               |
| Shore hardness                  | DIN EN ISO 868     | scale D             | 80              |
| Ball Hardness                   | ISO 2039           | MPa                 | 100             |
| Compressive strength            | DIN EN ISO 604     | MPa                 | 65              |

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|                                                    | Test method             | Unit        | Guideline value   |
|----------------------------------------------------|-------------------------|-------------|-------------------|
| Bending strength                                   | DIN EN ISO 178          | MPa         | 60                |
| <b>Thermal properties</b>                          |                         |             |                   |
| Thermal conductivity                               | DIN 52612-1             | W / (m * K) | 0,16              |
| Vicat softening temperature                        | DIN EN ISO 306, Vicat B | °C          | 76                |
| 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           |
| <b>Electrical properties</b>                       |                         |             |                   |
| Dielectric constant                                | IEC 60250               |             | 3,2               |
| Dielectric dissipation factor (10 <sup>6</sup> Hz) | IEC 60250               |             | 0,02              |
| Volume resistivity                                 | DIN EN 62631-3-1        | Ω * cm      | >10 <sup>15</sup> |
| Surface resistivity                                | DIN EN 62631-3-2        | Ω           | >10 <sup>13</sup> |

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.