

### Technical Data Sheet

## Trovidur® NL red

#### Typical characteristics

- Identification colour red
- Uniform physical properties
- High resistance to acids, lyes and salt solutions
- Flame retardant, self-extinguishing after removal of flame
- Easy processing by welding, thermoforming and glueing
- Good impact strength

#### Typical industries

- Výroba nádrží a zařízení pro chemický průmysl
- Skladovací nádrže

|                                     | Test method             | Unit                | Guideline value |
|-------------------------------------|-------------------------|---------------------|-----------------|
| <b>General properties</b>           |                         |                     |                 |
| Density                             | DIN EN ISO 1183-1       | g / cm <sup>3</sup> | 1,40            |
| Water absorption                    | DIN EN ISO 62           | %                   | 0,20            |
| Flammability (Thickness 1 ... 3 mm) | DIN 4102                |                     | B1              |
| <b>Mechanical properties</b>        |                         |                     |                 |
| Yield stress                        | DIN EN ISO 527          | MPa                 | 62              |
| 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             | 85              |
| Ball Hardness                       | ISO 2039                | MPa                 | 125             |
| Compressive strength                | DIN EN ISO 604          | MPa                 | 70              |
| Bending strength                    | DIN EN ISO 178          | MPa                 | 80              |
| <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                  | -10 ... +60     |

|  | Test method        | Unit     | Guideline value   |
|--|--------------------|----------|-------------------|
| Heat deflection temperature                        | DIN EN ISO 75      | °C       | 69                |
| 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   | Ohm * cm | >10 <sup>15</sup> |
| Surface resistivity                                | DIN EN 62631-3-2   | Ohm      | >10 <sup>13</sup> |
| 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.

