

### Technical Data Sheet

## Polystone® Safe-Tec L

PE-HD / PE 300

#### Typical characteristics

- Buena resistencia a la intemperie
- Propiedad antideslizante incluso en superficies mojadas
- Procesamiento fácil
- La superficie y las superficies cortadas se pueden soldar entre sí.
- Sin emisión de disolventes, plastificantes o estabilizantes.
- Buenas propiedades de absorción de ruido.
- Amortiguación de vibraciones

#### Typical industries

- Parques infantiles
- Embarcaciones de recreo y trabajo
- Construcción de buques y embarcaciones
- Deporte y ocio

|                                      | Test method       | Unit                | Guideline value |
|--------------------------------------|-------------------|---------------------|-----------------|
| <b>General properties</b>            |                   |                     |                 |
| Density                              | DIN EN ISO 1183-1 | g / cm <sup>3</sup> | >0,95           |
| Water absorption                     | DIN EN ISO 62     | %                   | <0,01           |
| Flammability (Thickness 3 mm / 6 mm) | UL 94             |                     | HB              |
| Flammability (Thickness 3 - 10 mm)   | DIN 4102          |                     | B2              |
| <b>Mechanical properties</b>         |                   |                     |                 |
| Yield stress                         | DIN EN ISO 527    | MPa                 | >22             |
| Elongation at break                  | DIN EN ISO 527    | %                   | >50             |
| Tensile modulus of elasticity        | DIN EN ISO 527    | MPa                 | >1000           |
| Notched impact strength              | DIN EN ISO 179    | kJ / m <sup>2</sup> | >10             |
| Shore hardness                       | DIN EN ISO 868    | scale D             | >60             |
| <b>Thermal properties</b>            |                   |                     |                 |
| Melting temperature                  | ISO 11357-3       | °C                  | 130 ... 135     |
| Thermal conductivity                 | DIN 52612-1       | W / (m * K)         | 0,40            |
| Thermal capacity                     | DIN 52612         | kJ / (kg * K)       | 1,90            |

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Print: 12/12/2025 • Release: 11/11/2024 • Version: 1.0  
 PIM-Version: 1000 • PIM-ID: 591162 • PIM-Code: 1000-33-61.13.12.11.12.10.10-8.11.5.3-5.5  
 Company-IDs: 20000-1

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|                                                    | Test method             | Unit                 | Guideline value   |
|----------------------------------------------------|-------------------------|----------------------|-------------------|
| Coefficient of linear thermal expansion            | DIN 53752               | 10 <sup>-6</sup> / K | 150 ... 230       |
| Service temperature, long term                     | Average                 | °C                   | -50 ... 100       |
| Service temperature, short term (max.)             | Average                 | °C                   | 100               |
| Vicat softening temperature                        | DIN EN ISO 306, Vicat B | °C                   | 67                |
| <b>Electrical properties</b>                       |                         |                      |                   |
| Dielectric constant                                | IEC 60250               |                      | 2,4               |
| Dielectric dissipation factor (10 <sup>6</sup> Hz) | IEC 60250               |                      | 0,0004            |
| Volume resistivity                                 | DIN EN 62631-3-1        | Ω * cm               | >10 <sup>14</sup> |
| Surface resistivity                                | DIN EN 62631-3-2        | Ω                    | >10 <sup>14</sup> |
| Comparative tracking index                         | IEC 60112               |                      | 600               |
| Dielectric strength                                | IEC 60243               | kV / mm              | >40               |

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.

One-sided coating can lead to unpreventable material distortion under certain circumstances.