

### Technical Data Sheet

## Polystone<sup>®</sup> E natural extruded

PE-LD

#### Typical characteristics

- Easy processing
- High flexibility
- High elongation at break
- Good impact strength

#### Typical industries

- 机械工程行业
- Healthcare
- 真空成型

|                                                    | Test method       | Unit                 | Guideline value   |
|----------------------------------------------------|-------------------|----------------------|-------------------|
| <b>General properties</b>                          |                   |                      |                   |
| Density                                            | DIN EN ISO 1183-1 | g / cm <sup>3</sup>  | 0,92              |
| Water absorption                                   | DIN EN ISO 62     | %                    | <0,1              |
| Flammability (Thickness 3 mm / 6 mm)               | UL 94             |                      | HB                |
| <b>Mechanical properties</b>                       |                   |                      |                   |
| Elongation at break                                | DIN EN ISO 527    | %                    | >50               |
| Tensile modulus of elasticity                      | DIN EN ISO 527    | MPa                  | >200              |
| Notched impact strength                            | DIN EN ISO 179    | kJ / m <sup>2</sup>  | >60               |
| Shore hardness                                     | DIN EN ISO 868    | scale D              | >40               |
| <b>Thermal properties</b>                          |                   |                      |                   |
| Melting temperature                                | ISO 11357-3       | °C                   | 105 ... 115       |
| Thermal conductivity                               | DIN 52612-1       | W / (m * K)          | 0,35              |
| Thermal capacity                                   | DIN 52612         | kJ / (kg * K)        | 2,10              |
| Coefficient of linear thermal expansion            | DIN 53752         | 10 <sup>-6</sup> / K | 150 ... 230       |
| Service temperature, long term                     | Average           | °C                   | -50 ... 60        |
| Service temperature, short term (max.)             | Average           | °C                   | 90                |
| <b>Electrical properties</b>                       |                   |                      |                   |
| Dielectric constant                                | IEC 60250         |                      | 2,4               |
| Dielectric dissipation factor (10 <sup>6</sup> Hz) | IEC 60250         |                      | 0,0006            |
| 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> |

[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)

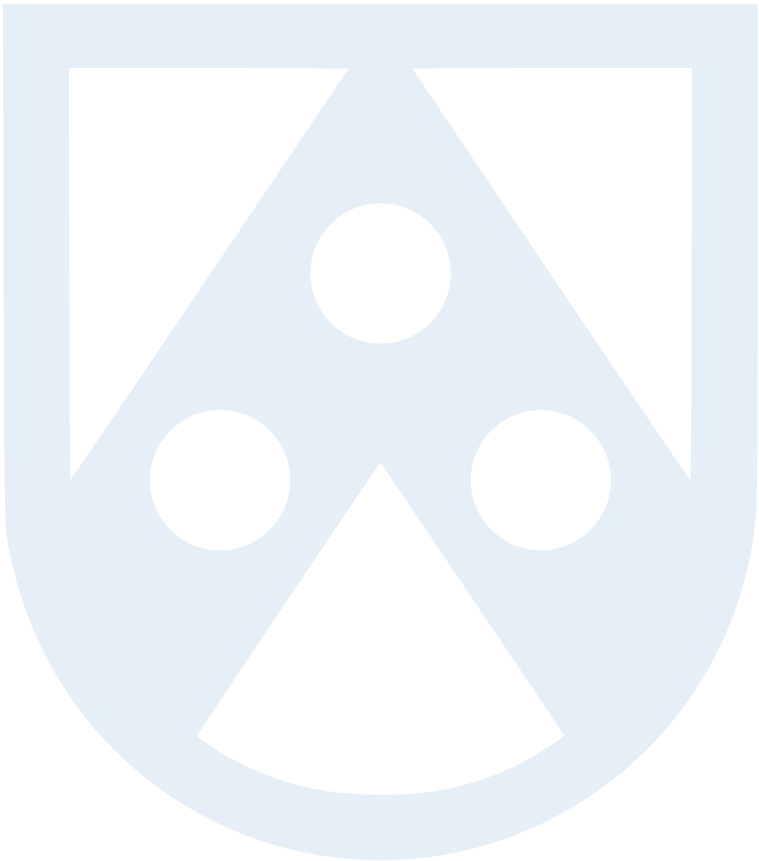
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|                            | Test method | Unit    | Guideline value |
|----------------------------|-------------|---------|-----------------|
| Comparative tracking index | IEC 60112   |         | 600             |
| Dielectric strength        | 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.



[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)

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