

## Technical Data Sheet

# Polystone® G EL black pressed

PE-HD / PE 300

### Typical characteristics

- Good weldability
- Easy processing
- Chemical resistant
- Good mechanical properties

### Typical industries

- Construction de réservoirs et d'installations chimiques

|   | Test method             | Unit                 | Guideline value |
|---|-------------------------|----------------------|-----------------|
| <b>General properties</b>               |                         |                      |                 |
| Densité                                 | DIN EN ISO 1183-1       | g / cm <sup>3</sup>  | >0,98           |
| 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             |
| Tensile modulus of elasticity           | DIN EN ISO 527          | MPa                  | >1100           |
| Notched impact strength                 | DIN EN ISO 179          | kJ / m <sup>2</sup>  | >5              |
| Shore hardness                          | DIN EN ISO 868          | scale D              | >65             |
| <b>Thermal properties</b>               |                         |                      |                 |
| Melting temperature                     | ISO 11357-3             | °C                   | 130 ... 135     |
| Coefficient of linear thermal expansion | DIN 53752               | 10 <sup>-6</sup> / K | 150 ... 230     |
| Service temperature, long term          | Average                 | °C                   | -50 ... 80      |
| Service temperature, short term (max.)  | Average                 | °C                   | 100             |
| Vicat softening temperature             | DIN EN ISO 306, Vicat B | °C                   | 67              |
| Thermal conductivity                    | DIN EN ISO 22007-2      | W / (m * K)          | 0,40            |
| Thermal capacity                        | DIN EN ISO 11357-4      | kJ / (kg * K)        | 1,90            |
| <b>Electrical properties</b>            |                         |                      |                 |
| Volume resistivity                      | DIN EN 62631-3-1        | Ω * cm               | 10 <sup>5</sup> |
| Surface resistivity                     | DIN EN 62631-3-2        | Ω                    | 10 <sup>5</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.

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