

# Technical Data Sheet



**Polystone® P Grey Copolymer EHS - ASTM** (polypropylene copolymer + High-Temp additive  
(higher qty))

## Product characteristics

- High rigidity
- Very good weldability
- High chemical and corrosion resistance

## Product applications

- Chemical engineering and tank building
- Ventilation technology

|   | Test method | Unit                       | Guideline Value   |
|---|-------------|----------------------------|-------------------|
| <b>General properties</b>                 |             |                            |                   |
| Density                                   | ASTM D792   | g / cm <sup>3</sup>        | 0.91              |
| Water Absorption                          | ASTM D570   | %                          | <0.10             |
| Carbon Black Content                      | ISO6964     | %                          | n/a               |
| <b>Mechanical properties</b>              |             |                            |                   |
| Tensile Strength at Yield                 | ASTM D638   | psi                        | 3500              |
| Hardness                                  | ASTM D2240  | Shore D                    | 69                |
| Tensile Elongation                        | ASTM D638   | %                          | >300              |
| Flexural Modulus                          | ASTM D790   | psi                        | 155000            |
| Compressive Strength                      | ASTM D695   | psi                        | 4000              |
| Izod Impact, Notched                      | ASTM D256   | ft-lb/in                   | 8                 |
| Coefficient of Friction, Dynamic          |             |                            | 0.25-0.28         |
| <b>Thermal properties</b>                 |             |                            |                   |
| Coefficient of Linear Thermal Expansion   | ASTM D696   | in/in/°F x10 <sup>-5</sup> | 6                 |
| Melting Point                             |             | °F                         | 323               |
| Maximum Service Temperature, Air          |             | °F                         | 230               |
| Deflection Temperature at 1.8Mpa (264psi) | ASTM D648   | °F                         | 210               |
| Deflection Temperature at 1.8Mpa (66psi)  | ASTM D648   | °F                         | 217               |
| Flammability, UL94                        |             | 1/8 inch                   | HB                |
| <b>Electrical properties</b>              |             |                            |                   |
| Dielectric constant                       | ASTM D150   | 1 MHz                      | 2.5               |
| Dielectric strength                       | ASTM D149   | KV/mm                      | 45                |
| Surface resistivity                       | ASTM D257   | Ω/cm                       | >10 <sup>14</sup> |
| <b>Compliance Properties</b>              |             |                            |                   |
| FDA                                       |             |                            | Yes               |
| NSF                                       |             |                            | No                |
| USDA                                      |             |                            | Yes               |
| ASTM Approval                             |             |                            | D-4101            |

The data stated above are average values ascertained by statistical tests on a regular basis. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.

