

Technical Data Sheet

Polystone[®] P copolymer natural - ASTM

Typical characteristics

- High weldability
- Chemical resistance
- Good impact strength

Typical industries

- Aquaculture
- Technique des salles blanches
- Traitement de l'eau potable et des eaux usées
- Construction de réservoirs et d'installations chimiques
- Réservoirs de stockage
- Stations de galvanisation
- Centres de décapage d'acier
- Systèmes de ventilation
- Stations de purification d'air

| | Test method | Unit | Guideline value |
|---|-------------|----------------------------|-----------------|
| General properties | | | |
| Densité | ASTM D792 | g / cm ³ | 0.91 |
| Water Absorption | ASTM D570 | % | <0.10 |
| Mechanical properties | | | |
| Hardness | ASTM D2240 | Shore D | 69 |
| Tensile Strength at yield 73°F | ASTM D638 | psi | 3500 |
| Elongation at Break | ASTM D638 | % | ≥300 |
| Flexural Modulus | ASTM D790 | psi | 155000 |
| Compressive Strength | ASTM D695 | psi | 4400 |
| Izod Impact, Notched | ASTM D256 | ft-lb/in | 8.0 |
| Coefficient of Friction, Dynamic | | | 0.25-0.28 |
| Thermal properties | | | |
| Coefficient of Linear Thermal Expansion | ASTM D696 | in/in/°F x10 ⁻⁵ | 6 |
| Melting Point | | °F | 323 |
| Maximum Service Temperature, Air | | °F | 180 |
| Heat Deflection Temperature 264psi | ASTM D648 | °F | 210 |
| Flammability, UL94 | | 1/8 inch | HB |



| | Test method | Unit | Guideline value |
|------------------------------|-------------|------|-------------------|
| Electrical properties | | | |
| Dielectric constant | ASTM D150 | 1MHz | 2.5 |
| Dielectric strength | ASTM D149 | | 45 |
| Surface resistivity | ASTM D257 | Ω/cm | ≥10 ¹⁴ |
| Compliance properties | | | |
| FDA | | | Yes |
| NSF | | | No |
| USDA | | | Yes |

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.



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