

Technical Data Sheet

Polystone[®] G virgin black - ASTM

Typical characteristics

- Easy to machine and weld
- Chemical resistance
- Good mechanical properties

Typical industries

- Výroba nádrží a zařízení pro chemický průmysl
- Stavba strojů a zařízení
- Stavební průmysl
- Akvakultura
- Technologie pitné a odpadní vody
- Skladovací nádrže

| | Test method | Unit | Guideline value |
|---|-------------|----------------------------|-------------------|
| General properties | | | |
| Density | ASTM D792 | g / cm ³ | 0.953 |
| Water Absorption | ASTM D570 | % | <0.10 |
| Mechanical properties | | | |
| Hardness | ASTM D2240 | Shore D | 65 |
| Tensile Strength at yield 73°F | ASTM D638 | psi | 4000 |
| Elongation at Break | ASTM D638 | % | >500 |
| Flexural Strength | ASTM D790 | psi | 181000 |
| Izod Impact, Notched | ASTM D256 | ft-lb/in | 3.5 |
| Coefficient of Friction, Dynamic | | | 0.20-0.29 |
| Thermal properties | | | |
| Coefficient of Linear Thermal Expansion | ASTM D696 | in/in/°F x10 ⁻⁵ | 6 |
| Melting Point | | °F | 268 |
| Maximum Service Temperature, Air | | °F | 180 |
| Heat Deflection Temperature 264psi | ASTM D648 | °F | 165 |
| Flammability, UL94 | | 1/8 inch | HB |
| Electrical properties | | | |
| Dielectric constant | ASTM D150 | 1MHz | 2.4 |
| Surface resistivity | ASTM D257 | Ω/cm | >10 ¹⁴ |



| | Test method | Unit | Guideline value |
|------------------------------|-------------|------|-----------------|
| Compliance properties | | | |
| FDA | | | No |
| NSF | | | No |
| USDA | | | No |

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.

