

Technical Data Sheet

Polystone[®] M AST FDA - ASTM

Typical characteristics

- Low coefficient of friction
- Reduces built-up of static & electrical charges
- Very good abrasion and wear resistance

Typical industries

- Nápojový průmysl
- Dopravní technika a automatizace
- Potravinářský průmysl

| | Test method | Unit | Guideline value |
|------------------------------------|-------------|---------------------|------------------------|
| General properties | | | |
| Density | ASTM D792 | g / cm ³ | 0.94 |
| Water Absorption | ASTM D570 | % | <0.01 |
| Mechanical properties | | | |
| Wear resistance | Sand-slurry | | 100 |
| Hardness | ASTM D2240 | Shore D | 62 - 66 |
| Tensile Strength at yield 73°F | ASTM D638 | psi | 3000 |
| Tensile Modulus | ASTM D638 | psi | 100000 |
| Elongation at Break | ASTM D638 | % | >290 |
| Flexural Strength | ASTM D790 | psi | 3200 |
| Compressive Strength | ASTM D695 | psi | 2900 |
| Coefficient of Friction, Dynamic | | | 0.10-0.22 |
| Coefficient of Friction, Static | | | 0.15-0.20 |
| Thermal properties | | | |
| CTE, linear | ASTM D696 | in/in/°F | 1.1 x 10 ⁻⁴ |
| Melting Point | | °F | 266 - 275 |
| Maximum Service Temperature, Air | | °F | 180 |
| Heat Deflection Temperature 264psi | ASTM D648 | °F | 108 |
| Flammability, UL94 | | 1/8 inch | HB |
| Electrical properties | | | |
| Dielectric constant | ASTM D150 | 1MHz | 2.3 |

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| | Test method | Unit | Guideline value |
|------------------------------|-------------|--------------------|------------------|
| Surface resistivity | ASTM D257 | Ω/sq | $10^6 - 10^{11}$ |
| Compliance properties | | | |
| FDA | | | Yes |
| 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.



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