

Technical Data Sheet

Polystone[®] M virgin - ASTM

Typical characteristics

- Low coefficient of friction
- Very good abrasion and wear resistance
- Good impact strength

Typical industries

- Stavba strojů a zařízení

| | Test method | Unit | Guideline value |
|------------------------------------|-------------|---------------------|-----------------------|
| General properties | | | |
| Specific Gravity | ASTM D792 | g / cm ³ | 0.93 |
| Water Absorption | ASTM D570 | % | <0.10 |
| Mechanical properties | | | |
| Wear resistance | Sand-slurry | | 100 |
| Hardness | ASTM D2240 | Shore D | 62 - 66 |
| Tensile Strength at yield 73°F | ASTM D638 | psi | 3100 |
| Tensile Modulus | ASTM D638 | psi | 100000 |
| Elongation at Break | ASTM D638 | % | >350 |
| Flexural Strength | ASTM D790 | psi | 3500 |
| Compressive Strength | ASTM D695 | psi | 3000 |
| Izod Impact, Notched | ASTM D256 | ft-lb/in | No Break |
| Coefficient of Friction, Dynamic | | | 0.10-0.22 |
| Coefficient of Friction, Static | | | 0.15-0.20 |
| Izod Impact Strength | ASTM D4020 | kJ / m ² | 125 |
| Thermal properties | | | |
| CTE, linear | ASTM D696 | in/in/°F | 1.1x 10 ⁻⁴ |
| Melting Point | ASTM D3418 | °F | 266 - 275 |
| Vicat Softening Point | ISO306 | °F | 176 |
| Maximum Service Temperature, Air | | °F | 180 |
| Heat Deflection Temperature 264psi | ASTM D648 | °F | 108 |
| Flammability, UL94 | | 1/8 inch | HB |

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| | Test method | Unit | Guideline value |
|------------------------------|-------------|---------|-------------------|
| Electrical properties | | | |
| Volume Resistivity | ASTM D257 | Ωcm | >10 ¹⁵ |
| Dielectric constant | ASTM D150 | 1MHz | 2.3 |
| Dielectric strength | ASTM D149 | kV / mm | 45 |
| Surface resistivity | ASTM D257 | Ohm/cm | >10 ¹² |
| 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.

