

Durostone[®]
Lignostone[®]
Polystone[®]
Trovidur[®]

Matrox U 110 – Lining Material for high temperature application

characteristic

- UHMW-PE
- High temperature resistance
- High wear resistance

application

- Truck bed lining
- Hopper lining

| General properties | Value | Unit | Standard |
|---|----------------------|--------------------|---------------|
| Density | 0,93 | g/cm ³ | ISO 1183 |
| Water absorption | 0,01 | % | DIN EN ISO 62 |
| Mechanical properties | | | |
| Yield stress | 20 | N/mm ² | ISO 527-1 |
| Elongation at yield stress | 12 | % | ISO 527-1 |
| Elongation at break | >50 | % | ISO 527-1 |
| Tensile modulus of elasticity | 680 | N/mm ² | ISO 527-1 |
| Notched impact strength | o.B. | mJ/mm ² | ISO 179 |
| Coefficient of sliding friction | 0,1 | mJ/mm ² | ISO 179 |
| Shore hardness D | 63 | - | - |
| Wear resistance | 80 | - | Sand-slurry |
| Thermal properties | | | |
| Flammability | HB | - | UL 94 |
| Flammability | B2 | - | DIN 4102 |
| Thermal conductivity | 0,41 | W/mK | DIN 52612 |
| Coefficient of linear thermal expansion | 2 x 10 ⁻⁴ | 1/K | DIN 53752 |
| Service temperature (short) | -250...190 | °C | - |
| Service temperature (long) | -250...110 | °C | - |
| Crystallite melting temperature | 133-138 | °C | DSC |
| Electrical properties | | | |
| Specific volume resistivity | 10 ¹⁵ | Ohm x cm | DIN VDE 0303 |
| Surface resistivity | 10 ¹⁴ | Ohm | DIN VDE 0303 |

Remark

The data mentioned in this data sheet are average values ascertained by current statistical returns and tests. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contact sale.