

Technical Data Sheet



Polystone[®] D PIR black

PE-HD / PE 500

Typical characteristics

- Good sliding properties
- Good mechanical properties

Typical industries

- 输送机技术和自动化
- 机械工程行业

Sustainability

- Post-Industrial-Recycling material
- Recycling content 90%
- LCA available (ISO 14040/44)

| | Test method | Unit | Guideline value |
|--|-------------------------|----------------------|-----------------|
| General properties | | | |
| Density | DIN EN ISO 1183-1 | g / cm ³ | >0,95 |
| Water absorption | DIN EN ISO 62 | % | <0,01 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | HB |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | MPa | >25 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | >1100 |
| Shore hardness | DIN EN ISO 868 | scale D | 65 |
| Thermal properties | | | |
| Melting temperature | ISO 11357-3 | °C | 130 ... 135 |
| Thermal conductivity | DIN 52612-1 | W / (m * K) | 0,40 |
| Thermal capacity | DIN 52612 | kJ / (kg * K) | 1,90 |
| Coefficient of linear thermal expansion | DIN 53752 | 10 ⁻⁶ / K | 150 ... 230 |
| Service temperature, long term | Average | °C | -100 ... 80 |
| Service temperature, short term (max.) | Average | °C | 80 |
| Vicat softening temperature | DIN EN ISO 306, Vicat B | °C | 79 |
| Electrical properties | | | |
| Dielectric constant | IEC 60250 | | 2,3 |
| Dielectric dissipation factor (10 ⁶ Hz) | IEC 60250 | | 0,0002 |
| Comparative tracking index | IEC 60112 | | 600 |
| Dielectric strength | IEC 60243 | kV / mm | >40 |

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The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. 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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