



MAIN FEATURES

- Good heat deflection temperature
- Inherent flame retardant
- Very good chemical resistance
- Good slide wear properties
- High creep resistance
- Hydrolysis and superheated steam resistant

| | |
|--------|-------------------------------|
| COLOUR | Black |
| FILLER | Carbon fibres, PTFE, Graphite |

PROPERTIES

| | Typical value | Units | Test method |
|---------------------|---------------|-------------------|---------------------|
| DENSITY | 1.44 | g/cm ³ | |
| WATER ABSORPTION | 0.02/0.03 | % | DIN EN ISO 62 |
| FLAMMABILITY (UL94) | V0 | | DIN IEC 60695-11-10 |

MECHANICAL PROPERTIES

| | Typical value | Units | Test method |
|---------------------------|---------------|-------------------|--------------------|
| MODULUS OF ELASTICITY | 5500 | Mpa | DIN EN ISO 527-2 |
| TENSILE STRENGTH | 84 | Mpa | DIN EN ISO 527-2 |
| TENSILE STRENGTH AT YIELD | 84 | Mpa | DIN EN ISO 527-2 |
| ELONGATION AT YIELD | 3 | % | DIN EN ISO 527-2 |
| ELONGATION AT BREAK | 3 | % | DIN EN ISO 527-2 |
| FLEXURAL STRENGTH | 142 | MPa | DIN EN ISO 178 |
| MODULUS OF ELASTICITY | 6000 | Mpa | DIN EN ISO 178 |
| COMPRESSION STRENGTH | 23/44 | MPa | EN ISO 604 |
| COMPRESSION MODULUS | 4000 | Mpa | EN ISO 604 |
| IMPACT STRENGTH | 28 | kJ/m ² | DIN EN ISO 179-1eU |
| NOTCHED IMPACT STRENGTH | N.A. | kJ/m ² | DIN EN ISO 179-1eA |

THERMAL PROPERTIES

| | Typical value | Units | Test method |
|----------------------------------|---------------|-------|-------------|
| GLASS TRANSITION TEMPERATURE | 146 | °C | DIN 53765 |
| MELTING TEMPERATURE | 341 | °C | DIN 53765 |
| SERVICE TEMPERATURE (LONG TERM) | 260 | °C | |
| SERVICE TEMPERATURE (SHORT TERM) | 300 | °C | |



ELECTRICAL PROPERTIES

| | Typical value | Units | Test method |
|-----------------------------|------------------|--------------------------|------------------|
| SPECIFIC SURFACE RESISTANCE | $10^4 - 10^{11}$ | Ω | DIN EN 61340-2-3 |
| SPECIFIC VOLUME RESISTANCE | $10^7 - 10^{12}$ | $\Omega \cdot \text{cm}$ | DIN EN 61340-2-3 |

AVAILABLE

SEMI-FINISHED PRODUCTS

| | |
|----------|--|
| SHEETING | 5 to 50 mm* |
| ROD | $\varnothing 5$ to $\varnothing 100$ mm* |
| TUBE | At request |

* Other dimensions can be delivered at request.

We produce customized finished PEEK PVX® products according to your specifications.

This can be based on a drawing or model.

Any questions about products or make an enquiry? Simply call +31 180 46 34 71 or send us an e-mail at sales@ridderflex.nl