

## TECAPEEK SM PVX black – Spin Moulding

### Chemical designation

PEEK (polyetheretherketone)

### Colour

black

### Density

1.43 g/cm<sup>3</sup>

### Fillers

carbon fibres, graphite, PTFE

Production process: spin moulding

### Main features

- high thermal and mechanical capacity
- hydrolysis and superheated steam resistant
- good chemical resistance
- inherent flame retardant
- good machinability
- very good slide and wear properties
- good wear resistance

### Target Industries

- oil and gas industry
- chemical technology
- mechanical engineering
- aircraft and aerospace technology
- food engineering
- automotive industry
- packaging and paper machinery
- textile industry

| <b>Mechanical properties</b> | <b>parameter</b>                     | <b>value</b> | <b>unit</b> | <b>norm</b>     | <b>comment</b> |
|------------------------------|--------------------------------------|--------------|-------------|-----------------|----------------|
|                              | Modulus of elasticity (tensile test) | 6000         | MPa         | BS EN ISO 527-2 |                |
|                              | Tensile strength                     | 70           | MPa         | BS EN ISO 527-2 |                |
|                              | Tensile strength at yield            | 70           | MPa         | BS EN ISO 527-2 |                |
|                              | Elongation at break                  | 2            | %           | BS EN ISO 527-2 |                |
|                              | Shore D hardness                     | 85           |             | BS EN ISO 868   |                |

| <b>Thermal properties</b> | <b>parameter</b>             | <b>value</b> | <b>unit</b> | <b>norm</b> | <b>comment</b> |
|---------------------------|------------------------------|--------------|-------------|-------------|----------------|
|                           | Glass transition temperature | 143          | °C          | DIN 53765   | 1)             |
|                           | Melting temperature          | 343          | °C          | DIN 53765   |                |
|                           | Service temperature          | 300          | °C          |             | 2)             |
|                           | Service temperature          | 260          | °C          |             |                |

➤ TECAPEEK products are based on Victrex® PEEK polymer.

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