

## TECAPEEK MT XRO blue - Stock Shapes (rods, plates, tubes)

### Chemical Designation

PEEK (Polyetheretherketone)

### Colour

blue opaque

### Density

1.39 g/cm<sup>3</sup>

### Fillers

barium sulfate

### Main features

- high creep resistance
- x-ray opaque
- good chemical resistance
- good slide and wear properties
- resistance against high energy radiation
- very good stress cracking resistance
- hydrolysis and superheated steam resistant
- very good sterilisable

### Target Industries

- medical technology
- food technology
- mechanical engineering

| Mechanical properties                | parameter  | value | unit              | norm               | comment   |
|--------------------------------------|------------|-------|-------------------|--------------------|---|
| Tensile strength                     | 50mm/min   | 120   | MPa               | DIN EN ISO 527-2   | (1) For tensile test: specimen type 1b<br>(2) For Charpy test: support span 64mm, norm specimen.<br>n.b. = not broken |
| Modulus of elasticity (tensile test) | 1mm/min    | 4500  | MPa               | DIN EN ISO 527-2   |   |
| Elongation at break (tensile test)   | 50mm/min   | 10    | %                 | DIN EN ISO 527-2   |   |
| Impact strength (Charpy)             | max. 7,5J  | n.b.  | kJ/m <sup>2</sup> | DIN EN ISO 179-1eU |   |
| Notched impact strength (Charpy)     | max. 7,5J  | 5.7   | kJ/m <sup>2</sup> | DIN EN ISO 179-1eA |   |
| Thermal properties                   | parameter  | value | unit              | norm               | comment   |
| Melting temperature                  |            | 342   | °C                | DIN 53765          | (1) Found in public sources. Individual testing regarding application conditions is mandatory.                        |
| Service temperature                  | short term | 300   | °C                | -                  |   |
| Service temperature                  | long term  | 260   | °C                | -                  |   |

→ TECAPEEK products are based on Victrex® PEEK polymer.

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