

TECAPEEK UD blue - Ultra Detectable - Stock Shapes

Chemical Designation

PEEK (Polyetheretherketone)

Colour

dark blue

Density

1.74 g/cm³

Fillers

detectable filler

Main features

- metal detectable
- x-ray detectable

Target Industries

- food engineering
- food processing
- engineering for beverage filling systems
- pharmaceutical industry
- heat exchanger
- conveyor technology

| <i>Mechanical properties</i> | <i>condition</i> | <i>value</i> | | <i>test method</i> | <i>comment</i> |
|---------------------------------------|----------------------|--------------|-----------|--------------------|----------------|
| Modulus of elasticity (tensile test) | @ 73°F | 772,200 | psi | ASTM D 638 | |
| Tensile strength | @ 73°F | 12,750 | psi | ASTM D 638 | |
| Elongation at yield | @ 73°F | 3.43 | % | ASTM D 638 | |
| Elongation at break | @ 73°F | 4.13 | % | ASTM D 638 | |
| Flexural strength | @ 73°F | 21,230 | psi | ASTM D 790 | |
| Modulus of elasticity (flexural test) | @ 73°F | 728,400 | psi | ASTM D 790 | |
| Compression strength | @ 73°F 10% strain | 21,235 | psi | ASTM D 695 | |
| Compression modulus | @ 73°F | 536,730 | psi | ASTM D 695 | |
| Impact strength (Izod) | @ 73°F | .79 | ft-lbs/in | ASTM D 256 | |
| Rockwell hardness | @ 73°F M scale | 101 | % | ASTM D 785 | |
| <i>Thermal properties</i> | <i>condition</i> | <i>value</i> | | <i>test method</i> | <i>comment</i> |
| Melting temperature | | 644 | °F | - | |
| Service temperature | Maximum Long Term | 500 | °F | - | |
| Service temperature | Maximum Short Term | 572 | °F | - | |

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