

## TECAPEEK UD blue - Ultra Detectable - Stock Shapes

### Chemical Designation

PEEK (Polyetheretherketone)

### Colour

dark blue

### Density

1.74 g/cm<sup>3</sup>

### Fillers

detectable filler

### Main features

- metal detectable
- x-ray detectable

### Target Industries

- food processing
- food technology
- 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<br>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<br>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        | -                  |                |
| <i>Other properties</i>               | <i>condition</i>     | <i>value</i> |           | <i>test method</i> | <i>comment</i> |
| Flammability (UL94)                   |                      | V0           |           | -                  |                |

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