

# VICTREX® PEEK 450P

Polyetheretherketone

Victrex plc

## Message:

High performance thermoplastic material, unreinforced PolyEtherEtherKetone (PEEK), semi crystalline, coarse powder for extrusion compounding, standard flow, FDA food contact compliant, colour natural.

| General Information |                                      |
|---------------------|--------------------------------------|
| UL YellowCard       | E161131-224306                       |
| Features            | Food Contact Acceptable              |
|                     | Good Flow                            |
|                     | Semi Crystalline                     |
| Uses                | Compounding                          |
| Agency Ratings      | FDA Food Contact, Unspecified Rating |
| Appearance          | Natural Color                        |
| Forms               | Powder                               |
| Processing Method   | Compounding                          |
|                     | Extrusion                            |

| Physical                              | Nominal Value | Unit              | Test Method |
|---------------------------------------|---------------|-------------------|-------------|
| Density                               | 1.30          | g/cm <sup>3</sup> | ISO 1183    |
| Mechanical                            | Nominal Value | Unit              | Test Method |
| Tensile Modulus (23°C)                | 3700          | MPa               | ISO 527-2   |
| Tensile Stress (Yield, 23°C)          | 100           | MPa               | ISO 527-2   |
| Tensile Strain (Break, 23°C)          | 30            | %                 | ISO 527-2   |
| Flexural Modulus (23°C)               | 4100          | MPa               | ISO 178     |
| Flexural Stress (23°C)                | 160           | MPa               | ISO 178     |
| Impact                                | Nominal Value | Unit              | Test Method |
| Notched Izod Impact Strength (23°C)   | 6.5           | kJ/m <sup>2</sup> | ISO 180/A   |
| Unnotched Izod Impact Strength (23°C) | No Break      |                   | ISO 180     |
| Thermal                               | Nominal Value | Unit              | Test Method |
| Glass Transition Temperature          | 143           | °C                | ISO 11357-2 |
| Melting Temperature                   | 343           | °C                | ISO 11357-3 |
| Fill Analysis                         | Nominal Value | Unit              | Test Method |
| Melt Viscosity (400°C)                | 350           | Pa · s            | ISO 11443   |

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