

VICTREX PC™ 101 WH

General Information

Product Description

High performance biocompatible thermoplastic material, PolyEtherEtherKetone (PEEK), semi crystalline. Granules for injection moulding and extrusion, standard flow, specifically for drug delivery devices, pharmaceutical manufacturing and packaging. Colour White.

Typical Application Areas

Tested to meet USP Class VI, for use in pharmaceutical non-implantable drug delivery applications. As PEEK is hygroscopic, drying before use is recommended. Further information is available upon request.

VICTREX PC™ offers high performance for strength, chemical resistance, wear resistance, toughness and purity whilst being PFAS free.

Material Properties

Physical	Nominal Value	Unit	Test Method
Density (Crystalline)	1.38	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, 23°C	99.0	MPa	
Break	70.0	MPa	
Tensile Strain (Break, 23°C)	18	%	ISO 527-2
Flexural Modulus (23°C)	4200	MPa	ISO 178
Flexural Stress ¹ (23°C)	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	4.0	kJ/m ²	ISO 180/A
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (400°C, 1000 sec ⁻¹)	480	Pa·s	Internal Method

Typical Processing Information

Injection	Nominal Value	Unit
Drying Temperature	120 to 150	°C
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Hopper Temperature	< 100	°C
Rear Temperature	365	°C
Middle Temperature	370 to 380	°C
Front Temperature	380	°C
Nozzle Temperature	380	°C
Mould Temperature	180 to 210	°C

Injection Notes

Drying Temperature / Time: 150°C / 3h or 120°C / 5h (residual moisture <0.02%)

Runner: Die / nozzle >3mm, manifold >3.5mm

Gate: >2mm or 0.5 x part thickness

Important Notes:

1) Processing conditions quoted in our datasheets are typical of those used in our processing laboratories

- Data for mould shrinkage should be used for material comparison. Actual mould shrinkage values are highly dependent on part geometry, mould configuration, and processing conditions.
- Mould shrinkage differs for along flow and across flow directions. "Along flow" direction is taken as the direction the molten material is travelling when it exits the gate and enters the mould.
- Mould shrinkage is expressed as a percent change in dimension of a specimen in relation to mould dimensions.

2) Data are generated in accordance with prevailing national, international and internal standards, and should be used for material comparison.

Actual property values are highly dependent on part geometry, mould configuration and processing conditions. Properties may also differ for along flow and across flow directions.

Storage Requirements

Store in original packaging away from direct sunlight and extremes of temperatures. Do not use if sealing tab is broken prior to opening.

Development Material

During qualification activities NFHI (Not For Human Implantation) grades are available upon request.

Detailed data available on our website www.victrex.com or upon request.

Notes

¹ At yield

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