



HIGH PERFORMANCE PEEK™ POLYMERS

VICTREX® PEEK™ 450PF

➤ **Product Description:**

High performance thermoplastic material, unreinforced PolyEtherEtherKetone (PEEK), semi crystalline, fine powder for compression moulding, standard flow, FDA food contact compliant, colour natural.

➤ **Material Properties**

	CONDITIONS	TEST METHOD	UNITS	TYPICAL VALUE
Mechanical Data				
Tensile Strength	Yield, 23°C	ISO 527	MPa	100 *
Tensile Elongation	Break, 23°C	ISO 527	%	30 *
Tensile Modulus	23°C	ISO 527	GPa	3.7 *
Flexural Strength	23°C	ISO 178	MPa	160 *
Flexural Modulus	23°C	ISO 178	GPa	4.1 *
Izod Impact Strength	Notched, 23°C	ISO 180/A	kJ m ⁻²	6.5 *
	Unnotched, 23°C	ISO 180/U		n/b *
Thermal Data				
Melting Point		ISO 11357	°C	343
Glass Transition (Tg)	Onset	ISO 11357	°C	143
Flow				
Melt Viscosity		Victrex	kN s m ⁻²	0.45
Miscellaneous				
Density		ISO 1183	g cm ⁻³	1.30
Bulk Density		ISO 1183	g cm ⁻³	0.30
Average Particle Size (D ₅₀)		ISO 13320-1	µm	50

* Result based on similar products

Recommended Processing Conditions	
Drying Temperature / Time	150°C / 3h or 120°C / 5h
Processing Temperature	380-400°C

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

World Headquarters

Victrex plc, Hillhouse International, Thornton Cleveleys, Lancashire FY5 4QD United Kingdom
Tel: + (44) 1253 897700 Fax: + (44) 1253 897701 Email: victrexplc@victrex.com

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