

VICTREX™ PEEK POLYMER 450PF

General Information

Product Description

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

Material Properties

Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Apparent (Bulk) Density	0.30	g/cm ³	ISO 1183
Average Particle SizeD50	50	µm	ISO 13320-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	4000	MPa	ISO 527-1
Tensile Stress (Yield, 23°C)	98.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	30	%	ISO 527-2
Flexural Modulus (23°C)	3800	MPa	ISO 178
Flexural Stress (23°C)	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	7.0	kJ/m ²	ISO 180/A
Unnotched Izod Impact Strength (23°C)	No Break		ISO 180
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature			ISO 11357-2
Onset	143	°C	
Midpoint	150	°C	
Melting Temperature	343	°C	ISO 11357-3
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (400°C)	350	Pa·s	ISO 11443
Additional Information	Nominal Value	Unit	
Compression Molding Temperature	380 to 400	°C	
Drying TemperatureCompression molding	120 to 150	°C	
Drying TimeCompression molding	3.0 to 5.0	hr	

Typical Processing Information

Injection Notes

Important notes: