

VICTREX® PEEK 450PF

Polyetheretherketone

Victrex plc

Message:

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

General Information			
Features	Food Contact Acceptable		
	Good Flow		
	Semi Crystalline		
Agency Ratings	FDA Food Contact, Unspecified Rating		
Appearance	Natural Color		
Forms	Powder		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm³	ISO 1183
Apparent Density	0.30	g/cm³	ISO 1183
Particle Size	50.0	µm	ISO 13320-1
Compression Molding Temperature	380 to 400	°C	
Drying Temperature - Compression molding	120 to 150	°C	
Drying Time - Compression molding	3.0 to 5.0	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	37000	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/m²	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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