

Victrex® PEEK 450P Polyetheretherketone, Unreinforced

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Unreinforced

Material Notes:

Product Description:High performance thermoplastic material, unreinforced Polyetheretherketone (PEEK), semi crystalline, coarse powder for extrusion compounding, standard flow, FDA food contact compliant, colour natural.Information Provided by VICTREX®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Victrex-PEEK-450P-Polyetheretherketone-Unreinforced.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Viscosity	350000 cP @Temperature 400 °C	350000 cP @Temperature 752 °F	ISO 11443

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	98.0 MPa @Temperature 23.0 °C	14200 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	30 % @Temperature 23.0 °C	30 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	4.00 GPa @Temperature 23.0 °C	580 ksi @Temperature 73.4 °F	ISO 527
Flexural Strength	160 MPa @Temperature 23.0 °C	23200 psi @Temperature 73.4 °F	ISO 178
Flexural Modulus	3.80 GPa @Temperature 23.0 °C	551 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180/U

Thermal Properties	Metric	English	Comments
Melting Point	343 °C	649 °F	ISO 11357
Glass Transition Temp, Tg	143 °C	289 °F	Onset; ISO 11357
	150 °C	302 °F	Midpoint; ISO 11357

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	380 - 400 °C	716 - 752 °F	
Dry Time	3.00 hour	3.00 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	5.00 hour	5.00 hour	
	@Temperature 120 °C	@Temperature 248 °F	

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