

Victrex® PEEK 150XF Polyetheretherketone, Unreinforced

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

Material Notes:

Product Description: High performance thermoplastic material, unreinforced Polyetheretherketone (PEEK), semi crystalline, fine powder for compression moulding, easy 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-150XF-Polyetheretherketone-Unreinforced.php

Physical Properties	Metric	English	Comments
Bulk Density	0.300 g/cc	0.0108 lb/in ³	ISO 1183
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Particle Size	25 µm	25 µm	D₅₀; ISO 13320-1
Viscosity	130000 cP	130000 cP	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	100 MPa @Temperature 23.0 °C	14500 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	15 % @Temperature 23.0 °C	15 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	4.10 GPa @Temperature 23.0 °C	595 ksi @Temperature 73.4 °F	ISO 527
Flexural Strength	170 MPa @Temperature 23.0 °C	24700 psi @Temperature 73.4 °F	ISO 178
Flexural Modulus	3.90 GPa @Temperature 23.0 °C	566 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m ² @Temperature 23.0 °C	2.14 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

Thermal Properties	Metric	English	Comments
	147 °C	299 °F	Midpoint, ISO 11357

Processing Properties	Metric	English	Comments
Processing Temperature	380 - 400 °C	716 - 752 °F	
Drying Temperature	120 °C	248 °F	
	@Time 18000 sec	@Time 5.00 hour	
	150 °C	302 °F	
	@Time 10800 sec	@Time 3.00 hour	

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