

Victrex® PEEK 150PF Easy Flow

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled

Material Notes:

Product Description: High performance thermoplastic material, unreinforced PolyEtherEtherKetone (PEEK), semi crystalline, fine powder for compression molding, easy flow, FDA food contact compliant, color natural. Information provided by Victrex.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Victrex-PEEK-150PF-Easy-Flow.php

Physical Properties	Metric	English	Comments
Bulk Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Particle Size	50 µm	50 µm	D50; ISO 13320-1
Spiral Flow	22.7 cm @Thickness 1.00 mm	8.94 in @Thickness 0.0394 in	recommended processing conditions

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	100 MPa	14500 psi	ISO 527
Elongation at Break	15 %	15 %	ISO 527
Tensile Modulus	4.10 GPa	595 ksi	ISO 527
Flexural Strength	170 MPa	24700 psi	ISO 178
Flexural Modulus	3.90 GPa	566 ksi	ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m ²	2.14 ft-lb/in ²	ISO 180/A
Izod Impact, Unnotched (ISO)	NB	NB	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
	147 °C	297 °F	Midpoint; ISO 11357

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.8 @Frequency 1000 Hz	2.8 @Frequency 1000 Hz	

Electrical Properties	^{3.3} Metric	^{3.3} English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.0010	0.0010	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0040	0.0040	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	150 V	150 V	

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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