

Victrex® HT™ P45PF Polyetherketone

Category : Polymer , Thermoplastic , Polyketone

Material Notes:

Product Description: High performance thermoplastic material, unreinforced PolyEtherKetone (PEK), semi crystalline, fine powder for compression compounding, low flow, FDA food contact compliant Information provided by Victrex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Victrex-HT-P45PF-Polyetherketone.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	Crystalline; ISO 1183
Particle Size	50 µm	50 µm	D ₅₀ ; ISO 13320-1
Viscosity	350000 cP @Temperature 400 °C	350000 cP @Temperature 752 °F	Melt; ISO 11443

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	100 MPa	14500 psi	ISO 527
Elongation at Break	15 %	15 %	ISO 527
Tensile Modulus	4.20 GPa	609 ksi	ISO 527
Flexural Strength	170 MPa	24700 psi	ISO 178
Flexural Modulus	4.20 GPa	609 ksi	ISO 178
Izod Impact, Notched (ISO)	6.50 kJ/m ²	3.09 ft-lb/in ²	ISO 180/A
Izod Impact, Unnotched (ISO)	NB	NB	ISO 180/U

Thermal Properties	Metric	English	Comments
Melting Point	373 °C	703 °F	ISO 11357
Glass Transition Temp, Tg	152 °C	306 °F	Onset; ISO 11357
	160 °C	320 °F	Midpoint

Processing Properties	Metric	English	Comments
Processing Temperature	400 - 420 °C	752 - 788 °F	
Dry Time	3 hour	3 hour	

Processing Properties	@Temperature 150 °C Metric	@Temperature 302 °F English	Comments
	5 hour	5 hour	
	@Temperature 120 °C	@Temperature 248 °F	

Descriptive Properties	Value	Comments
Color	Natural	

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