

VICTREX FG™ POLYMER 700 FPD

General Information

Product Description

High performance thermoplastic material, unreinforced PolyEtherEtherKetone (PEEK), semi crystalline, fine powder for composite manufacture, easy flow, FDA food contact compliant, colour natural.

Applications for higher strength in a static system. Low coefficient of thermal expansion. Chemically resistant to aggressive environments, suitable for sterilisation for medical and food contact applications

1.30		Material Properties Physical Nominal Value Unit Test Method				
1.30	Unit	Test Method				
	g/cm³	ISO 1183				
0.30	g/cm³	ISO 1183				
10	μm	ISO 13320-1				
inal Value	Unit	Test Method				
4100	MPa	ISO 527-1				
100	MPa	ISO 527-2				
15	%	ISO 527-2				
3900	MPa	ISO 178				
170	MPa	ISO 178				
inal Value	Unit	Test Method				
4.5	kJ/m²	ISO 180/A				
No Break		ISO 180				
inal Value	Unit	Test Method				
		ISO 11357-2				
143	°C					
147	°C					
343	°C	ISO 11357-3				
inal Value	Unit	Test Method				
	Pa·s	ISO 11443				
	130	130 Pa·s				

Injection	Nominal Value Unit	
Drying Temperature	120 to 150 °C	
Drying Time	3.0 to 5.0 hr	
Suggested Max Moisture	0.020 %	
Processing (Melt) Temp	380 to 400 °C	

VICTREX FG™ POLYMER 700 FPD

Injection Notes

Important notes:

- 1) Processing conditions quoted in our datasheets are typical of those used in our processing laboratories
 - Data for mould shrinkage should be used for material comparison. Actual mould shrinkage values are highly dependent on part geometry, mould configuration, and processing conditions.
 - Mould shrinkage differs for along flow and across flow directions. "Along flow" direction is taken as the direction the molten material is travelling
 when it exits the gate and enters the mould.
 - · Mould shrinkage is expressed as a percent change in dimension of a specimen in relation to mould dimensions.
- 2) Data are generated in accordance with prevailing national, international and internal standards, and should be used for material comparison. Actual property values are highly dependent on part geometry, mould configuration and processing conditions. Properties may also differ for along flow and across flow directions.

Detailed data available on our website www.victrex.com or upon request.

Notes

¹ Results based on similar products

Revision Date: November 2023

This information is provided "as is". It is not intended to amount to advice. Use of the product is at the customer's/user's risk. It is the customer's/user's responsibility to thoroughly test the product in each specific application to determine its performance, efficacy and safety for each end-use product, device or other application and compliance with applicable laws, regulations and standards. Mention of a product is no guarantee of availability. Victrex reserves the right to modify products, data sheets, specifications and packaging. Victrex makes no warranties, express or implied (including, without limitation, any warranty of fitness for a particular purpose or of intellectual property non-infringement) and will not be liable for any loss or damage of any nature (however arising) in connection with customer's/user's use or reliance on this information, except for any liability which cannot be excluded or limited by law. This document may be modified or retracted at any time without notice to the customer/user.

Victrex Manufacturing Limited (or another member of the Victrex group) is the owner or the licensee of all intellectual property rights in and to this document including the following trademarks, VICTREX, 450G, VICTREX AM, VICTREX CT, VICTREX FG, VICTREX HT, VICTREX ST, VICTREX WG, APTIV, LMPAEK, VICOTE, TRIANGLE (Device). All rights are protected by intellectual property rights including copyright under relevant national and international intellectual property laws and treaties. All rights reserved. Copyright © Victrex Manufacturing Limited 2025.