



Oxford Performance Materials

30 South Satellite Road • South Windsor, CT 06074 USA • T: +1.860.698.9300 • F: +1.860.698.9978 • [www.oxfordpm.com](http://www.oxfordpm.com)

# High Performance Thermoplastic OXPEKK® Materials

## Preliminary data sheet for OXPEKK® Fibers

### Monofilament [Developmental]

<b>AVAILABILITY:</b>	Oriented or Unoriented
<b>SIZES:</b>	75 – 250 microns
<b>STERILIZABLE:</b>	Gamma, ETO, Steam
<b>BIOCOMPATIBLE:</b>	ISO 10993 and USP Class VI tested

### OXPEKK-SP

Results for 150 micron highly oriented fiber

PROPERTIES	English Unit	Metric Unit	Amorphous Grade	
Form			Fiber Strand	
Specific Gravity	lb/cb-ft	<i>g/cm<sup>3</sup></i>	79.9	1.28
Water Absorption @ 24 hrs	%	%	<0.2	<0.2
<b>MECHANICAL</b>				
Diameter	in	<i>micron</i>	0.00693	176.022
Peak Load	oz	<i>gf</i>	49.67	1408.2
Peak Stress	ksi	<i>MPa</i>	82.47	568.61
Strain (Break)	%	%	14	14
Modulus	ksi	<i>MPa</i>	1118	7708.34
Tensile Strength (Break)	ksi	<i>MPa</i>	85	586
<b>THERMAL</b>				
Melting Point	°F	°C	585	307
Glass Transition	°F	°C	310	155



All Fibers are currently custom made according to your specific needs.

Please contact OPM for more details.

NOTICE TO USERS: To the best of our knowledge, the information contained in this publication is accurate, however we do not assume any liability whatsoever for the accuracy and completeness of such information. The analysis techniques included in this publication are often simplifications and, therefore, approximate in nature. Any determination of the suitability of a particular material for any use contemplated by the user is the sole responsibility of the user. Material data and values included in this publication are either based on testing of laboratory test specimens and represent data or were extracted from various published sources. All are believed to be representative. These values are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication.

DS07a Rev 20091011