

- Radiolucent/X-Ray Transparent
- Lightweight
- High strength and stiffness
- Near zero CTE (coefficient of thermal expansion)
- Solvent resistant
- Dimensionally stable after repeated sterilizations
- Machineable to complex parts such as nail guides, External fixation devices, tools, etc.
- Service Temperature of over 250°C

Carbon Fiber/PEEK composite panels for medical applications

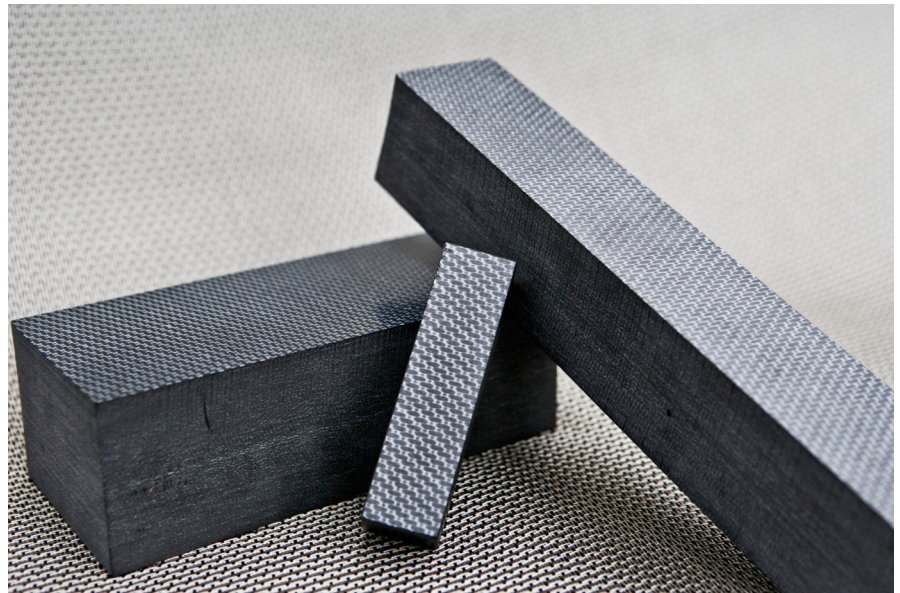
Vector Systems is offering panels and sheets of Polyetheretherketone (PEEK) thermoplastic matrix consolidated on a high strength continuous filament carbon fiber fabric. The FDA approved composite material is bio compatible and lends itself to the demanding environment required for surgical instrumentation and other medical applications.

Product Forms

Panels up to 500mm x 1100mm

Thickness up to 70mm

Smooth or rough surface finish for bonding available



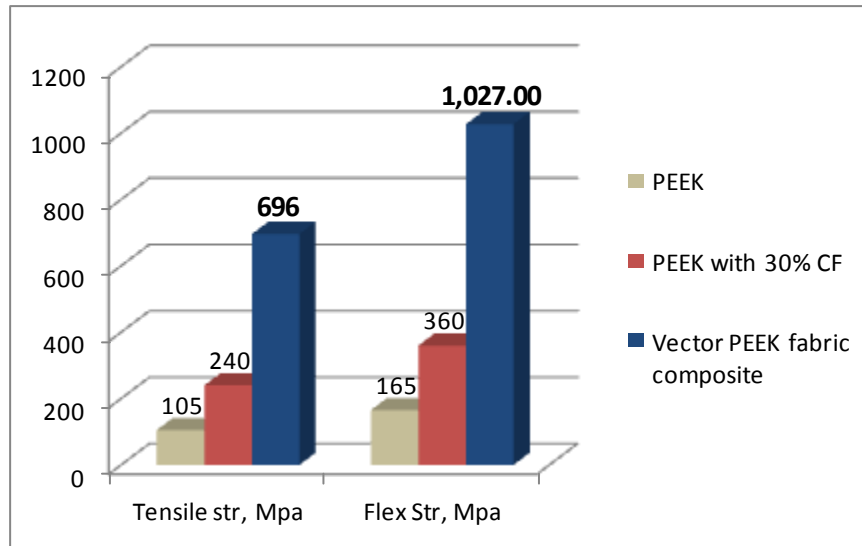
For more information, data, samples and pricing contact:

Vector Systems
1007 Eastwood St.
Holmen WI, 54636

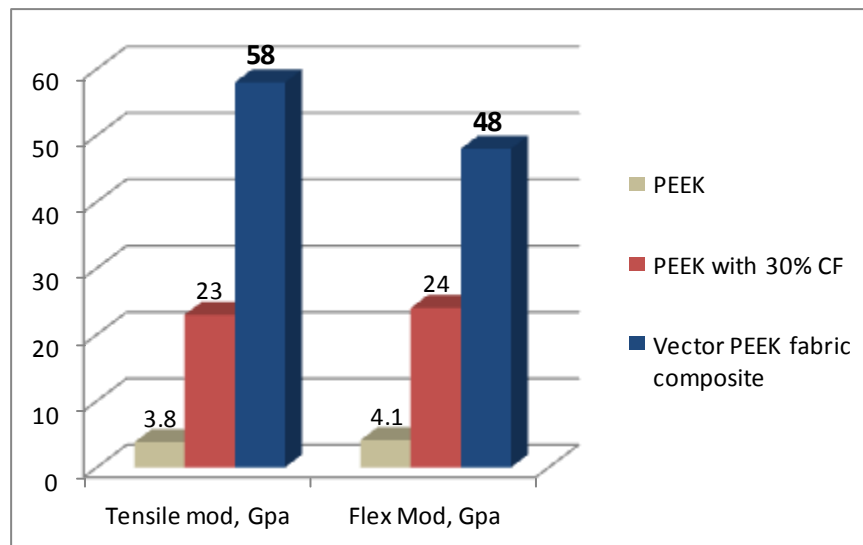
Todd Young
Telephone 608 721 4191
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Tensile and Flex Strength



Tensile and Flex Modulus



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Mechanical Properties T300/PEEK

Product tested 280 g/m² T300 (0/90 5 HS fabric) 51% resin content by weight

Property	Condition	Test Method	Value	Unit	Value	Unit
Tensile Strength (0°)	RTD	ASTM D 3039	101	Ksi	696	MPa
Tensile Modulus (0°)	RTD	ASTM D 3039	8.4	Msi	58	GPa
Tensile Strength (0°)	RTW	ASTM D 3039	105	Ksi	724	MPa
Tensile Modulus (0°)	RTW	ASTM D 3039	8.3	Msi	57	GPa
Flexural Strength (0°)	RTD	ASTM D 790	149	Ksi	1027	MPa
Flexural Modulus (0°)	RTD	ASTM D 790	7	Msi	48	GPa
Flexural Strength (0°)	RTW	ASTM D 790	133	Ksi	917	MPa
Flexural Modulus (0°)	RTW	ASTM D 790	6.6	Msi	46	GPa
Compressive Strength (0°)	RTD	ASTM D 695	64	Ksi	441	MPa
Compressive Modulus (0°)	RTD	ASTM D 695	7.7	Msi	53	GPa
Compressive Strength (0°)	RTW	ASTM D 695	60	Ksi	414	MPa
Compressive Modulus (0°)	RTW	ASTM D 695	7.1	Msi	49	GPa
RTD = Room Temperature dry RTW= Room Temperature Wet						

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