

Continuous IM-7/PEEK Composite Typical Material Properties

Material Properties	
Color	Black
Density	0.058 lb/in ³
Specific Gravity (liquid)	1.603
Fiber Weight Percentage	68%
Fiber Volume Percentage	61%
Glass Transition Temperature (T_g)	289°F
Crystallization Temperature (T_c)	552°F
Melting Temperature (T_m)	653°F

Mechanical Properties						
Temp.	0° Tensile Strength	0° Tensile Modulus	0° Comp. Strength	0° Comp. Modulus	90° Tensile Strength	90° Tensile Modulus
-67°F	410 ksi	25.0 Msi	220 ksi	22.0 Msi	9.2 ksi	1.60 Msi
73°F	420 ksi	25.0 Msi	190 ksi	22.0 Msi	8.7 ksi	1.50 Msi
250°F	400 ksi	25.0 Msi	170 ksi	21.0 Msi	7.0 ksi	1.20 Msi
IL Shear Strength (Unidirectional Sample, 73°F, In-situ process)					9.0 ksi	
In-Plane Shear Strength (+/- 45° Sample, 73°F)					26.0 ksi	
In-Plane Shear Modulus (+/- 45° Sample, 73°F)					0.80 Msi	

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