



COVENANT

Security Equipment

Mechanical Properties

<i>Test</i>	<i>Method</i>	<i>Results</i>
Tensile Tests:		
0° Tensile Strength	ASTM D5083	54,800 psi
0° Tensile Elongation	ASTM D5083	1.95%
0° Tensile Modulus	ASTM D5083	3.73 Msi
90° Tensile Strength	ASTM D5083	46,120 psi
90° Tensile Elongation	ASTM D5083	2.70%
90° Tensile Modulus	ASTM D5083	3.21 Msi
Flexural Tests:		
0° Flexural Strength	ASTM D790	22,030 psi
0° Flexural Modulus	ASTM D790	3.24 Msi
90° Flexural Strength	ASTM D790	20,580 psi
90° Flexural Modulus	ASTM D790	3.21 Msi
Short Beam Shear Tests:		
0° Short-Beam Shear	ASTM D2344	1750 psi
90° Short-Beam Shear	ASTM D2344	1880 psi
Compression Tests:		
0° Compression	ASTM D695	13,440 psi
90° Compression	ASTM D695	11,690 psi
Specific Gravity	ASTM D792	2.08

*0° = Longitudinal Direction

*90° = Transverse Direction