PYROFIL™ MR60H 24K

Typical Fiber Properties

Tow Tensile	Strength	825 5,680	ksi MPa	JISR 7601
	Modulus	42 290	msi GPa	
Typical Density		0.065 1.81	$lb.in^3$ g/cm^3	JISR 7601
Typical Yield	24K	517 960	yds/lb mg/m	JISR 7601

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ISO 9001:2000
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02/2008

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Typical Mechanical Properties of MR60H Composite Using PYROFIL™ MR60H

Test Conditions	RT (23ºC) Dry		Test Method
	SI Unit	US Unit	
Tensile Properties			
0º Tension			
Strength	3190 MPa	463 KSi	ASTM D3039
Modulus	165 GPa	23.9 MSi	
Elongation	1.73%		
Poisson Ratio	0.326		
90º Tension			
Strength	82.0 MPa	11.9 KSi	ASTM D3039
Modulus	8.56 GPa	1.24 MSi	
Elongation	1.08%		
Poisson Ratio	0.020		
±45º Tension			
Strength	283 MPa	41.1 KSi	ASTM D3039
Modulus	16.0 GPa	2.32 MSi	
Poisson Ratio	0.819		
Compression Properties			
0º Compression			
Strength	1440 MPa	209 KSi	SRM 1-88
Modulus	150 GPa	2.32 MSi	
Poisson Ratio	0.352		
Interlaminar Shear Properties			
In Plane Shear Strength	141 MPa	20.5 KSi	ASTM D3518
In Plane Shear Modulus	4.39 GPa	0.64 MSi	
Interlaminar Shear Strength	84.3 MPa	12.2 Ksi	ASTM D 2344 L/D=4

All the data cited above are normalized to 60% of fiber volume except for ILSS.

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