



PYROFIL™ HR40

Typical Fiber Properties

Tow Tensile	Strength	670 ksi 4610 MPa	JISR 7601
	Modulus	57 msi 390 GPa	
Typical Density		0.066 lb.in ³ 1.82 g/cm ³	JISR 7601
Typical Yield	12K	825 yds/lb 600 mg/m	JISR 7601

Typical Mechanical Properties

Tensile Properties	0°	Strength	423 ksi 2920 MPa	ASTM D3039 / 0°8ply
		Modulus	33.1 msi 228 GPa	ASTM D3039 / 0°8ply
	90°	Strength	8.7 ksi 60 MPa	ASTM D3039 / 0°16ply
		Modulus	1.04 msi 7.2 GPa	ASTM D3039 / 0°16ply
Compressive Properties	0°	Strength	194 ksi 1340 MPa	ASTM D3039 / 0°16ply
		Modulus	28.5 msi 197 GPa	ASTM D3039 / 0°16ply
	90°	Strength	24.5 ksi 169 MPa	ASTM D3410 / 0°20ply
		Modulus	1.16 msi 8.0 GPa	ASTM D3410 / 0°20ply
Flexural Properties	0°	Strength*	278 ksi 1920 MPa	ASTM D790 / 0°16ply, L/D=32, Vf=61%
		Modulus*	29.6 msi 204 GPa	ASTM D790 / 0°16ply, L/D=32, Vf=61%
	90°	Strength	16 ksi 110 MPa	ASTM D790 / 0°16ply, L/D=16, Vf=61%
		Modulus	1.1 msi 7.0 GPa	ASTM D790 / 0°16ply, L/D=16, Vf=61%
ILSS	Strength	12 ksi 83 MPa	ASTM D2344 / 0°16ply, L/D=4, Vf=59%	

- 250F Epoxy Prepregs
- Resin: Mitsubishi Rayon #350 resin system
- Tensile and compressive properties are normalized to 60% fiber volume

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ISO 9001:2000
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