

**TECHNICAL DATA SHEET**

**SCOTCHPLY**

Product	Fiber	Tensile Strength ksi	Tensile Modulus msi	Flexural Strength ksi	Flexural Modulus msi	SBS Strength ksi	Dry Service Temp. (°F/°C)	Cure Temp. (°F/°C)	Comments	Application Ideas
SP114	E-glass	140	5.7	182	5.3	11.3	250/121	325/163	Thin web (0.0075") version of SP-1003 composite.	Helicopter rotor blades
SP 250	E-glass	150	6	205	6	9.5	250/121	250/121	Excellent fatigue resistance.	Helicopter rotor blades
SP 250	S2-glass	260	7	220	7	12	250/121	250/121	Higher tensile and flexural strengths than E-glass version	Helicopter rotor blades
SP 350	E-glass	145	6.2	190	6.2	12.3	350/177	350/177	A high performance toughened prepreg with controlled flow and a 400°F (204°C) service temperature	Class 11 electrical insulators, vibratory springs
SP 377	120-glass	53	2	76	2.9	5.5	200/93	205/96	Low energy cure. Performance of 350°F (177°C), curing systems. Rapid cure at 300°F (149°C).	Composite repair, continuous processing
SP 377	7781-glass	45	3.3	65	2.9	6.6	200/93	205/96	Higher strength than 120 version.	Composite repair
SP 377	AS4-glass	277	21	184	17	11	200/93	205/96	High strength. Stiff.	Composite repair
SP 381	S2-glass	247	7	196	6.3	12.8	220/104	250/121	New generation 250° F, (121 °C) cure with higher strain-to -	Helicopter rotor blades, sail battens
SP 381	120-glass	78.9	4	114	3.8	9.7	220/104	250/121		
SP 381	7781-glass	60.1	3.9	100	3.7	10.7	220/104	250/121		

SP 381	AS4-carbon	110	10.7	124	10.1	11.6	220/104	250/121	failure ratio. Easy cure with controlled flow.	
SP 381	IM7-carbon	358	24	211	19.7	13.3	220/104	250/121		
SP 1002	E-glasscured	140	5.7	167	5.6	11	250/121	325/163	SP 1003/SP 1004 composite sheeted and layered into cured panels	Springs, rail joints, sporting equipment
SP 1003	E-glass	140	5.7	167	5.6	11	250/121	325/163	High performance structural prepreg Controlled flow.	Electrical insulation
SP 1004	E-glass	140	5.7	167	5.6	11	250/121	325/163	Same as SP 1003 composite with 50% greater thickness per ply.	Automotive springs, vibratory springs
SP 1009-36	E-glass	100	5.8	177	5.3	-	350/177	300/149	Short term exposure, of 500°F(260°C).	Electrical insulation, thermal insulation

**Applications:**

vibratory conveyors	furniture industry	automotive springs
vibratory feeders	electrical applications	trailer springs
vibratory screens	railroad joints	dock shelters
vibratory ball mill	composite coupling discs	springs for every use

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