



TECHNICAL DATA SHEET SCOTCHPLY®

Product	Fibre	Tensile Strength (ksi)	Tensile Modulus (msi)	Flexural Strength (ksi)	Flexural Modulus (msi)	SBS Strength (ksi)	Dry Service Temp. (°F/°C)	Cure Temp. (°F/°C)
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 with 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
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
SP 381	IM7-carbon	358	24	211	19.7	13.3	220/104	250/121
New generation 250° F, (121°C) cure with higher strain-to-failure ratio. Easy cure with controlled flow. (Helicopter rotor blades, sail battens)								
SP 1002	E-glass cured	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)								

Application

Vibratory conveyors • Vibratory feeders • Vibratory screens • Vibratory ball mill • Furniture industry • Electrical applications • Railroad joints • Composite coupling discs • Automotive springs • Trailer springs • Dock shelters • Springs for every use

Standard Options

Full range of sheet sizes and thicknesses available.

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