



**CUT TO SIZE
plastics**

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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, continues 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 |



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|-------------------|------------------|------|------|-----|------|------|---------|---------|---|--|
| 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 -failure ratio. Easy cure with controlled flow. | 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 | | |
| SP 381 | IM7- carbon | 358 | 24 | 211 | 19.7 | 13.3 | 220/104 | 250/121 | | |
| SP 1002 | E-glass cured | 140 | 5.7 | 167 | 5.6 | 11 | 250/121 | 325/163 | SP 1003/SP 1004 composite sheeted and laid 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 |

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For the most recent technical data and free application advice, please call Cut To Size Plastics on: (02) 9681 0400.