

Appendix A

Table 1: Strains and stresses. Stresses are in [GPa].

| Ply | ϵ_1 | ϵ_2 | ϵ_6 | ϵ_x | ϵ_y | ϵ_s | σ_x | σ_y | σ_s |
|----------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|
| 0 (0°) - Bot | 0.0331 | -0.0257 | -0.0007 | 0.0331 | -0.0257 | -0.0007 | 4.3876 | -0.1470 | -0.0037 |
| 0 (0°) - Top | 0.0323 | -0.0251 | -0.0007 | 0.0323 | -0.0251 | -0.0007 | 4.2922 | -0.1438 | -0.0037 |
| 1 (0°) - Bot | 0.0323 | -0.0251 | -0.0007 | 0.0323 | -0.0251 | -0.0007 | 4.2922 | -0.1438 | -0.0037 |
| 1 (0°) - Top | 0.0316 | -0.0246 | -0.0007 | 0.0316 | -0.0246 | -0.0007 | 4.1968 | -0.1406 | -0.0036 |
| 2 (25°) - Bot | 0.0316 | -0.0246 | -0.0007 | 0.0213 | -0.0143 | -0.0435 | 2.8346 | -0.0743 | -0.2218 |
| 2 (25°) - Top | 0.0309 | -0.0240 | -0.0007 | 0.0208 | -0.0139 | -0.0425 | 2.7702 | -0.0726 | -0.2168 |
| 3 (-25°) - Bot | 0.0309 | -0.0240 | -0.0007 | 0.0214 | -0.0145 | 0.0416 | 2.8397 | -0.0760 | 0.2123 |
| 3 (-25°) - Top | 0.0302 | -0.0235 | -0.0007 | 0.0209 | -0.0141 | 0.0407 | 2.7737 | -0.0742 | 0.2073 |
| 4 (0°) - Bot | 0.0302 | -0.0235 | -0.0007 | 0.0302 | -0.0235 | -0.0007 | 4.0060 | -0.1343 | -0.0034 |
| 4 (0°) - Top | 0.0295 | -0.0229 | -0.0007 | 0.0295 | -0.0229 | -0.0007 | 3.9107 | -0.1311 | -0.0033 |
| 5 (0°) - Bot | 0.0295 | -0.0229 | -0.0007 | 0.0295 | -0.0229 | -0.0007 | 3.9107 | -0.1311 | -0.0033 |
| 5 (0°) - Top | 0.0287 | -0.0223 | -0.0006 | 0.0287 | -0.0223 | -0.0006 | 3.8153 | -0.1279 | -0.0033 |
| 6 (0°) - Bot | -0.0287 | 0.0223 | 0.0006 | -0.0287 | 0.0223 | 0.0006 | -3.8153 | 0.1279 | 0.0033 |
| 6 (0°) - Top | -0.0295 | 0.0229 | 0.0007 | -0.0295 | 0.0229 | 0.0007 | -3.9107 | 0.1311 | 0.0033 |
| 7 (0°) - Bot | -0.0295 | 0.0229 | 0.0007 | -0.0295 | 0.0229 | 0.0007 | -3.9107 | 0.1311 | 0.0033 |
| 7 (0°) - Top | -0.0302 | 0.0235 | 0.0007 | -0.0302 | 0.0235 | 0.0007 | -4.0060 | 0.1343 | 0.0034 |
| 8 (-25°) - Bot | -0.0302 | 0.0235 | 0.0007 | -0.0209 | 0.0141 | -0.0407 | -2.7737 | 0.0742 | -0.2073 |
| 8 (-25°) - Top | -0.0309 | 0.0240 | 0.0007 | -0.0214 | 0.0145 | -0.0416 | -2.8397 | 0.0760 | -0.2123 |
| 9 (25°) - Bot | -0.0309 | 0.0240 | 0.0007 | -0.0208 | 0.0139 | 0.0425 | -2.7702 | 0.0726 | 0.2168 |
| 9 (25°) - Top | -0.0316 | 0.0246 | 0.0007 | -0.0213 | 0.0143 | 0.0435 | -2.8346 | 0.0743 | 0.2218 |
| 10 (0°) - Bot | -0.0316 | 0.0246 | 0.0007 | -0.0316 | 0.0246 | 0.0007 | -4.1968 | 0.1406 | 0.0036 |
| 10 (0°) - Top | -0.0323 | 0.0251 | 0.0007 | -0.0323 | 0.0251 | 0.0007 | -4.2922 | 0.1438 | 0.0037 |
| 11 (0°) - Bot | -0.0323 | 0.0251 | 0.0007 | -0.0323 | 0.0251 | 0.0007 | -4.2922 | 0.1438 | 0.0037 |
| 11 (0°) - Top | -0.0331 | 0.0257 | 0.0007 | -0.0331 | 0.0257 | 0.0007 | -4.3876 | 0.1470 | 0.0037 |