APPENDIX A—Compression After Impact Tests Histories

Figure 71  Compression After Impact Tests History of No.1

Figure 72  Compression After Impact Tests History of No.2
Figure 73  Compression After Impact Tests History of No.3

Figure 74  Compression After Impact Tests History of No.4A
Figure 75  Compression After Impact Tests History of No.4B

Figure 76  Compression After Impact Tests History of No.5
Figure 77  Compression After Impact Tests History of No.6

Figure 78  Compression After Impact Tests History of No.7
Figure 79  Compression After Impact Tests History of No.7

Figure 80  Compression After Impact Tests History of No.8
Figure 81  Compression After Impact Tests History of No.10

Figure 82  Compression After Impact Tests History of No.11
Figure 83  Compression After Impact Tests History of No.13AC

Figure 84  Compression After Impact Tests History of No.13AG
Figure 85  Compression After Impact Tests History of No.13BC

Figure 86  Compression After Impact Tests History of No.13BG
Figure 87  Compression After Impact Tests History of No.14

Figure 88  Compression After Impact Tests History of No.15
Figure 89  Compression After Impact Tests History of No.17
APPENDIX B—Micrograph and High Resolution Photograph
All the photographs in appendix B display the cross-sections through the impact centre of all the specimens.

Figure 90  The cross-section of No.1 (T800/M21 UD Prepreg)

Figure 91  The cross-section of No.2 (T800/M21 Woven Prepreg)

Figure 92  The cross-section of No.3 (T700/M21 UD Prepreg)

Figure 93  The cross-section of No.4A (5HS woven preform/LY564)
Figure 94  The cross-section of No.4B (5HS woven preform/RTM6)

Figure 95  The cross-section of No.5 (5HS woven preform/3508)

Figure 96  The cross-section of No.6 (5HS woven preform/LY564/veil)

Figure 97  The cross-section of No.7 (5HS woven preform/LY564/veil)

Figure 98  The cross-section of No.8 (5HS woven preform/binder/LY564)
Figure 99  The cross-section of No.9 (NCF preform/LY564)

Figure 100  The cross-section of No.10 (UD preform/LY564/veil)

Figure 101  The cross-section of No.11 (uniweave preform/binder/LY564)

Figure 102  The cross-section of No.13AC (5HS woven preform/LY564/C-tuft)

Figure 103  The cross-section of No.13AG (5HS woven preform/LY564/G-tuft)
Figure 104  The cross-section of No.13BC (5HS woven preform/RTM6/C-tuft)

Figure 105  The cross-section of No.13BG (5HS woven preform/RTM6/G-tuft)

Figure 106  The cross-section of No.14 (T300/913 Woven Prepreg)

Figure 107  The cross-section of No.15 (UD preform/LY564/veil/binder)

Figure 108  The cross-section of No.17 (5HS woven preform/LY564/veil)
APPENDIX C—Micrograph and High Resolution Photograph

Figure 109  Sporadic, discontinuous, small voids inside of NCF/LY564 panel

Figure 110  The close-up of the damage inside No.3 (T700/M21 UD Prepreg)

Figure 111  The close-up of the damage inside No.4B (5HS woven preform/RTM6)