

,QSXW	7HVW 3ODQ 3UHIL[	7HVW 3ODQ 0DWHULDO 7HVW	&XUH &FDH &RQGLWLRQ
\$,75		3:& :7 /+ 57'	

7HVW SURX5 3:& :7 /+ 57'

0DWHULDO &) 5: 1RUPDOLJDWLRQ &XUH 3O\ 7K3ONLGHVV	\$&* ,QF
7HVW 7\SH :DUS 7HQVLOH &RQGLWLRQ 57'	0DWHULDO 3URFHVV
7HVW 0HWKRG 03 \$670' 0RGXOXV 3RLVVRQ V 5DQJH &KRUG WR	/DERUDWRU\ 5HSRUW

6SHFLPHQ ,'	/HQJWK LQ	7KLFNO&MMHG 8QDWLPDWH	8QDWLPDWH 6WUHQJWK NVL 3RLVVRQ	1RWHV
\$,75 3:& :7 % /+ 57				1RW 7HVWH
\$,75 3:& :7 % /+ 57				1RW 7HVWH
\$,75 3:& :7 % /+ 57				1RW 7HVWH
\$,75 3:& :7 % /+ 57				1RW 7HVWH
\$,75 3:& :7 % /+ 57				1RW 7HVWH
\$,75 3:& :7 % /+ 57				1RW 7HVWH
\$,75 3:& :7 % /+ 57				1RW 7HVWH
\$,75 3:& :7 % /+ 57				1RW 7HVWH

0LQLPXP	
0D[LXP	
\$YHUDJH	
6WDQGDUG 'HYLDWLRQ	
&RHIILFLHQW RI 9DULDWLRQ	
1R 6SHFLPHQV	

1RWHV
 17 1RW 7HVWHG
 15 1R 5HVXOW
 *(*DJH (UURU
)0)DLOXUH 0RGH 8QDFFHSWDEOH

7HVW 3ODQ 3UHIL[
\$,75
7HVW \$URX

7HVW 3ODQ 0DWHULDO 7HVW
3:& :7 /+ (7:

&XUH &\FOH &RQGLWLRQ



,QSXW 7HVW 3ODQ 3UHIL[7HVW 3ODQ 0DWHULDO 7HVW &XUH &\FOH &RQGLWLRQ
 \$,75 3:&)7 /+ &7'
 7HVW \$,75 3:&)7 /+ &7'
 0DWHULDO &) 5: 1RUPDOLJDWLRLQ &XUHG 3O\ 7K\ 3ONLGHVV \$&* ,QF
 7HVW 7\SH)LOO 7HQVLOH &RQGLWLRQ &7' 0DWHULDO 3URFHVV
 7HVW 0HWKRG 03 \$670' 0RGXOXV 3RLVVRQ V 5DQJH &KRUG WR /DERUDWRU\ 5HSRUW
 6SHFLPHQ , ' /HQJWK LQ 7KLEHQHVV
 LQ :LQWK LQ
 0HDV(XURUPDOLJH V(XURUPDOLJH
 \$,75 3:&)7 % /+ &7' /\$ 1RW 7HVWH
 \$,75 3:&)7 % /+ &7' /*0 1RW 7HVWH
 \$,75 3:&)7 % /+ &7' /\$ 1RW 7HVWH
 \$,75 3:&)7 % /+ &7' /\$% 1RW 7HVWH
 \$,75 3:&)7 % /+ &7' /\$ 1RW 7HVWH
 \$,75 3:&)7 % /+ &7' /\$ 1RW 7HVWH
 \$,75 3:&)7 % /+ &7' /\$ 1RW 7HVWH
 \$,75 3:&)7 % /+ &7' /*7 /\$%0 1RW 7HVWH

1RWHV
 17 1RW 7HVWHG
 15 1R 5HVXOW
 *(*DJH (UURU
)0)DLOXUH 0RGH 8QDFFHSWDEOH

7HVW 3ODQ 3UHIL[7HVW 3ODQ 0DWHULDO 7HVW &XUH &\FOH &RQGLWLRQ
\$,75 3:&)7 /+ 57'
7HVW SUR,75 3:&)7 /+ 57'
0DWHULDO



7HVW 3ODQ 3UHIL[7HVW 3ODQ 0DWHULDO 7HVW &XUH &\FOH &RQGLWLRQ
\$,75 3:&)7 /+ (7:
7HVW SUR,75 3:&)7 /+ (7:
0DWHULDO 3OLHV_ \$&* ,QF
7HVW 7\SH)LOO 7HQVLOH &RQGLWLRQ 0DWHULDO 3URFHVV
7HVW 0HWKRG 03 \$670' 0RGXOXV 3RLVVRQ V 5DQJH &KRUG WR /DERUDWRU\ 5HSRUW
0HDV(XURHUPDOLJH

7HVW 3ODQ 3UHIL[7HVW 3ODQ 0DWHULDO 7HVW &XUH &\FOH &RQGLWLRQ
 \$,75 3:&)7 /+ (7:
 7HVW \$,75 3:&)7 /+ (7:
 0DWHULDO _____ 3OLHV_ \$&* ,QF
 7HVW 7\SH_____)LOO 7HQVLOH &RQGLWLRQ 0DWHULDO 3URFHVV
 7HVW 0HWKRG ____ 03 ____ \$670' 0RGXOXV 3RLVVRQ V 5DQJH &KRUG WR /DERUDWRU\ 5HSRUW

							0HDV(XURUPDOL]B(XURUPDOL]H	
\$,75	3:&	)7	% /+	(7:	7 /\$%	/*	*(	1RW 7HVWH
\$,75	3:&	)7	% /+	(7:	% /\$7	/*	*(	1RW 7HVWH
\$,75	3:&	)7	% /+	(7:	% /\$7	/*	17	1RW 7HVWH
\$,75	3:&	)7	% /+	(7:	% /\$7	/*	*(	1RW 7HVWH
\$,75	3:&	)7	% /+	(7:	% /\$7	/*	*(	1RW 7HVWH
\$,75	3:&	)7	% /+	(7:	% /\$7	/*	*(	1RW 7HVWH
\$,75	3:&	)7	% /+	(7:	% /\$7	/*	*(	1RW 7HVWH
\$,75	3:&	)7	% /+	(7:	% /\$7	/*	*(	1RW 7HVWH



, QSXW	7HVW 3ODQ 3UHIL[	7HVW 3ODQ 0DWHULDO 7HVW	&XUH &F DH &RQGLWLRQ
\$,75		3:& :& /+ 57'	

7HVW SURX5 3:& :& /+ 57'

0DWHULDO &) 5: 1RUPDOL]DWLRQ &XUH 3O\ 7K3ONLGHVV	\$&* ,QF
7HVW 7\SH :DUS &RPSUHVV&RQGLWLRQ 57'	0DWHULDO 3URFHVV
7HVW 0HWKRG 03 \$670' 0RGXOXV 3RLVVRQ V 5DQJH &KRUG WR	/DERUDWRU\ 5HSRUW

6SHFLPHQ ,'	/HQJWK LQ	7KLFNO&MMHG 8QDLPDWH	8QDLPDWH 6WUHQJWK NVL 3RLVVRQ
\$,75 3:& :& % /+ 57'			7*0
\$,75 3:& :& % /+ 57'			+*0 +
\$,75 3:& :& % /+ 57'			7*0 *(
\$,75 3:& :& % /+ 57'			%*0
\$,75 3:& :& % /+ 57'			%**
\$,75 3:& :& % /+ 57'			+*0
\$,75 3:& :& % /+ 57'			%*0
\$,75 3:& :& % /+ 57'			%, %*0 +

0LQLPXP	
0D[LXP	
\$YHUDJH	
6WDQGDUG 'HYLDWLRQ	
&RHIILFLHQW RI 9DULDWLRQ	
1R 6SHFLPHQV	

1RWHV
 17 1RW 7HVWHG
 15 1R 5HVXOW
 *(*DJH (UURU
)0)DLOXUH 0RGH 8QDFFHSWDEOH

7HVW 3ODQ 3UHIL[7HVW 3ODQ 0DWHULDO 7HVW &XUH &\FOH &RQGLWLRQ
\$,75 3:& :& /+ (7:
7HVW SUR,75 3:& :& /+ (7:
0DWHULDO _____ 3OLHV_ \$&* ,QF
7HVW 7\SH :DUS &RPSUHVV&RQGLWLRQ 0DWHULDO 3URFHVV
7HVW 0HWKRG 03 \$670'



, QSXW 7HVW 3ODQ 3UHIL[7HVW 3ODQ 0DWHULDO 7HVW &XUH &FDH &RQGLWLRQ

7HVW SURX5 3:&)& /+ 57'

0DWHULDO &) 5: 1RUPDOL]DWLRQ &XUH 3O\ 7K3ONLHVV \$&* ,QF
 7HVW 7\SH)LOO &RPSUHVV&RQGLWLRQ 57' 0DWHULDO 3URFHVV
 7HVW 0HWKRG 03 \$670' 0RGXOXV 3RLVVRQ V 5DQJH &KRUG WR /DERUDWRU\ 5HSRUW

6SHFLPHQ ,'	/HQJWK LQ	7KLFNO&MMHG 8QDLPDWH	8QDLPDWH 6WUHQJWK NVL 3RLVVRQ
\$.75 3:&)& % /+ 57'			%*7
\$.75 3:&)& % /+ 57'			+*0
\$.75 3:&)& % /+ 57'			+*7
\$.75 3:&)& % /+ 57'			%*0
\$.75 3:&)& % /+ 57'			%*%
\$.75 3:&)& % /+ 57'			%*0 *(
\$.75 3:&)& % /+ 57'			%*0
\$.75 3:&)& % /+ 57'			%*0

0LQLPXP
 0D[LXP
 \$YHUDJH
 6WDQGDUG 'HYLDWLRQ
 &RHIILFLHQW RI 9DULDWLRQ
 1R 6SHFLPHQV

1RWHV
 17 1RW 7HVWHG)& % /+ 57' 0RGXOXV IURP WR
 15 1R 5HVXOW
 *(*DJH (UURU
)0)DLOXUH 0RGH 8QDFFHSWDEOH

7HVW 3ODQ 3UHIL[7HVW 3ODQ 0DWHULDO 7HVW &XUH &\FOH &RQGLWLRQ
\$,75 3:&)& /+ (7'
7HVW SUR,75 3:&)& /+ (7'
0DWHULDO



7HVW 3ODQ 3UHIL[7HVW 3ODQ 0DWHULDO 7HVW &XUH &\FOH &RQGLWLRQ
\$,75 3:&)& /+ (7:
7HVW SUR,75 3:&)& /+ (7:
0DWHULDO



, QSXW	7HVW 3ODQ 3UHLI	7HVW 3ODQ 0DWHULDO 7HVW	&XUH &F DH &RQGLWLRQ
\$,75		3:&)& /+ (7:	

7HVW SURX5 3:&)& /+ (7:

0DWHULDO &) 5: 1RUPDOL]DWLRQ &XUH 3O\ 7K3ONLGHVV	\$&* ,QF
7HVW 7\SH)LOO &RPSUHVVV&RQGLWLRQ (7:	0DWHULDO 3URFHVV
7HVW 0HWKRG 03 \$670' 0RGXOXV 3RLVVRQ V 5DQJH &KRUG WR	/DERUDWRU\ 5HSRUW

6SHFLPHQ ,'	/HQJWK LQ	7KLFNO&MMHG 8QDLPDWH	8QDLPDWH 6WUHQJWK NVL 3RLVVRQ	0DWHULDO 3URFHVV
\$,75 3:&)& % /+ (7			+*%	*()
\$,75 3:&)& % /+ (7			+*0	*()
\$,75 3:&)& % /+ (7			+*7	*()
\$,75 3:&)& % /+ (7			+*%	*()
\$,75 3:&)& % /+ (7			%*0	*()
\$,75 3:&)& % /+ (7			+*0	*()
\$,75 3:&)& % /+ (7			+*0	*()
\$,75 3:&)& % /+ (7			+*0	*()

0LQLPXP	
0D[LXP	
\$YHUDJH	
6WDQGDUG 'HYLDWLRQ	
&RHIILFLHQW RI 9DULDWLRQ	
1R 6SHFLPHQV	

1RWHV
 17 1RW 7HVWHG
 15 1R 5HVXOW
 *(*DJH (UURU
)0)DLOXUH 0RGH 8QDFFHSWDEOH

7HVW 3ODQ 3UHIL[7HVW 3ODQ 0DWHULDO 7HVW &XUH &\FOH &RQGLWLRQ
\$,75 3:& ,36 /+ &7'
7HVW SUR75 3:& ,36 /+ &7'
0DWHULDO 1RUPDOLIDWLRQ &X\$HG 3O\ 7KLFNQHVV \$&* ,QF
7HVW 7\SH " f ,Q 3ODQH 6K&RQGLWLRQ &73OLHV _ 0DWHULDO 3URFHVV
7HVW 0HWKRG 03 \$670' 0RGXOXV 3RLVVRQ V 5DQJH &KRUG WDERUDWRU W
0RGXOXV 0VL
2IIV# 6WUDLQ 0D[LPXP 0HDVXUH

,QSXW 7HVW 3ODQ 3UHIL[7HVW 3ODQ 0DWHULDO 7HVW &XUH &\FOH &RQGLWLRQ
 \$,75 3:& ,36 /+ 57'
 7HVW SURX5 3:& ,36 /+ 57'
 0DWHU070 &) 5: 1RUPDOLLDWLRQ &X\$HG 3O\ 7KLFNQHVV \$&* ,QF
 7HVW 7\SH " f ,Q 3ODQH 6KRQGLWLRQ 573OLHV _ 0DWHULDO 3URFHVV
 7HVW 0HWKRG 03 \$670' 0RGXOXV 3RLVVRQ V 5DQJH &KRUG ~~DERUD~~ ~~SRUW~~
 6SHFLPHQ , ' /HQJWK LQ ` 5: 2IIV# 6WUDLQ 0D[LPXP(0HDVXUH
 0RGXOXV 0VL
 \$,75 3:& ,36 % /+ 57' 17
 \$,75 3:& ,36 % /+ 57' 17
 \$,75 3:& ,36 % /+ 57' 17
 \$,75 3:& ,36 % /+ 57' 17
 \$,75 3:& ,36 % /+ 57' 17
 \$,75 3:& ,36 % /+ 57' 17
 \$,75 3:& ,36 % /+ 57' 17
 \$,75 3:& ,36 % /+ 57' 17
 \$,75 3:& ,36 % /+ 57' 17

1RWHV
 17 1RW 7HVWHG
 15 1R 5HVXOW
 1\$ 1RW \$SSOLFDEOH
)0)DLOXUH 0RGH 8QDFFHSDWDEOH
 *(*DJH (UUR

, Q S X W	7 H V W 3 O D Q 3 U H I L	7 H V W 3 O D Q	0 D W H U L D O	7 H V W	& X U H & \ F O H	& R Q G L W L R Q
\$,75		3 : & , 36	/ +	(7 :		

7 H V W S U R X 5 3 : & , 36 / + (7 :

0 D W H U L D O &) 5 :	1 R U P D O L D W L R Q & X S H G 3 O \ 7 K L F N Q H V V	\$ & * , Q F
7 H V W 7 \ S H " f , Q 3 O D Q H 6 K & R Q G L W L R Q (7 3 O L H V _		0 D W H U L D O 3 U R F H V V
7 H V W 0 H W K R G 0 3 \$ 6 7 0 ' 0 R G X O X V 3 R L V V R Q V 5 D Q J H & K R U G		W D E R U D S V R U W

6 S H F L P H Q , '	/ H Q J W K : L Q W K	L Q	7 K L F N Q H V V	& X U H G 3 O V	0 R G H 6 K H D U 6 W U H Q J W K 0 R G X O X V	0 V L
\$,75	3 : & , 36 % / +	(7 :			2 I V # 6 W U D L Q 0 D [L P X P	0 H D V X U H
\$,75	3 : & , 36 % / +	(7 :				
\$,75	3 : & , 36 % / +	(7 :				
\$,75	3 : & , 36 % / +	(7 :				
\$,75	3 : & , 36 % / +	(7 :				
\$,75	3 : & , 36 % / +	(7 :				
\$,75	3 : & , 36 % / +	(7 :				
\$,75	3 : & , 36 % / +	(7 :				

0 L Q L P X P						
0 D [L P X P						
\$ Y H U D J H						
6 W D Q G D U G ' H Y L D W L R Q						
& R H I I L F L H Q W R I 9 D U L D W L R Q						
1 R 6 S H F L P H Q V						

1 R W H V
 17 1 R W 7 H V W H G
 15 1 R 5 H V X O W
 1 \$ 1 R W \$ S S O L F D E O H
) 0) D L O X U H 0 R G H 8 Q D F F H S W D E O H
 * (* D J H (U U R

,QSXW 7HVW 3ODQ 3UHIL[7HVW 3ODQ 0DWHULDO 7HVW &XUH &\FOH &RQGLWLRQ
 \$,75 3:& 6%6 /+ (7: 3:& 6%6 /+ (7:
 7HVW \$,75 3:& 6%6 /+ (7:
 0DWHU070 &) 5: 1RUPDOLDWLRQ &XUH 3O\ 7KLFNQ\$&* ,QF
 7HVW 7\SH 6KRUW %HDP 6KHD&RQGLWLRQ (7: 3OLHV _ 0DWHULDO 3URFHVV
 7HVW 0HWKRG 03 \$670' 6SDQ W__ /DERUDWRU\ 5HSRUW
 6SHFLPHQ , ' /HQJWK LQ)DLOXUH 0RGH 8QDFFHSWDEOH
 \$,75 3:& 6%6 % /+ (7: ,/6
 \$,75 3:& 6%6 % /+ (7: ,/6
 \$,75 3:& 6%6 % /+ (7: ,/6
 \$,75 3:& 6%6 % /+ (7: ,/6
 \$,75 3:& 6%6 % /+ (7: ,/6
 \$,75 3:& 6%6 % /+ (7: ,/6
 \$,75 3:& 6%6 % /+ (7: ,/6
 \$,75 3:& 6%6 % /+ (7:)&&
 \$,75 3:& 6%6 % /+ (7: ,/6



1RWHV
 17 1RW 7HVWHG
 15 1R 5HVXOW
)0)DLOXUH 0RGH 8QDFFHSWDEOH



7HVW 3ODQ 3UHIL[7HVW 3ODQ 0DWHULDO 7HVW &XUH &\FOH &RQGLWLRQ
\$,75 3:& 2+7 /+ 57'

7HVW *URXS \$,75 3:& 2+7 /+ 57'

0DWHULDO

1RUPDOL]DWLRQ&XISHG 3O\ 7KLFNQHVV \$&* ,QF

7HVW 7\SH 2SHQ +ROH 7HQVLRQ /D\X&RQGLWLRQ 573OLHV _

0DWHULDO 3URFHVV

7HVW 0HWKRG 03 \$670'

/DERUDWRU\ 5HSRUW

0HDVXUHRUPDOL]H

\$,75 3:& 2+7 % /+ 57'



7HVW 3ODQ 3UHIL[7HVW 3ODQ 0DWHULDO 7HVW &XUH &\FOH &RQGLWLRQ
\$,75 3:& 2+7 /+ (7:
7HVW *URXS \$,75 3:& 2+7 /+ (7:
0DWHULDO 1RUPDOL]DWLRQ&XISHG 3O\ 7KLFNQHVV \$&* ,QF
7HVW 7\SH 2SHQ +ROH 7HQVLRQ /D\X&RQGLWLRQ (73OLHV _ 0DWHULDO 3URFHVV
7HVW 0HWKRG 03 \$670' /DERUDWRU\ 5HSRUW

0HDVXUHRUPDOL]H



7HVW 3ODQ 3UHIL[	7HVW 3ODQ 0DWHULDO	7HVW	&XUH &\FOH &RQGLWLRQ
\$,75	3:& 2+& /+ 57'		
7HVW *URXS \$,75	3:& 2+& /+ 57'		
0DWHULDO	1RUPDOLIDWL&RQHGS 3O\ 7KLEHQHV	\$&* ,QF	
7HVW 7\SH 2SHQ +ROH &RPSUHVVL&RQHGS 5DLHV		0DWHULDO 3URFHVV	
7HVW 0HWKRG 03 \$670'		/DERUDWRU\ 5HSRUW	
	+ROH (GRGH (GJH		
	6LGH I (QG J		(0HFDVXUHL]H
\$,75	3:& 2+& % /+ 57'		0 /*
\$,75	3:& 2+& % /+ 57'		0 /*
\$,75	3:& 2+& % /+ 57'		



,QSXW	7HVW 3ODQ 3U	HIL	7HVW 3ODQ	ODWHULDO	7HVW	&XUH	&\FOH	&RQGLW	RQ
	\$.75		3:&	2+&	/+	(7:			

7HVW *URXS \$.75 3:& 2+& /+ (7:

ODWHU	LD70	&)	5:	1RUPDOL	DWLRQ	HGS	30\	7KLFNQHV	\$&* ,QF
7HVW	7\SH	2SHQ	+ROH	&RPSUHVV	LRQ	DLWS	RQ	37OLHV	ODWHULDO 3URFHVV
7HVW	0HWKRG	03	\$670'						/DERUDWRU\ 5HSRUW

6SHFLPHQ ,'	/HQJW	KLGWK	7KLFNQ	8KUHG	30\	+ROH	(GRGH	(GJH	WK	LDPHW	8OWLP	DWLP	WLPDWH	6WU)	DL	DK	HNVL
\$.75	3:&	2+&	% /+	(7:													0 / *
\$.75	3:&	2+&	% /+	(7:													0 / *
\$.75	3:&	2+&	% /+	(7:													0 / *
\$.75	3:&	2+&	% /+	(7:													0 / *
\$.75	3:&	2+&	% /+	(7:													0 / *
\$.75	3:&	2+&	% /+	(7:													0 / *
\$.75	3:&	2+&	% /+	(7:													0 / *
\$.75	3:&	2+&	% /+	(7:													0 / *

0LQLPXP																	
0DLPXP																	
\$YHUDJH																	
6WDQGDUG	'HYLDWLRQ																
&RHILFLHQW	RI 9DULDWLRQ																
1R	6SHFLPHQV																

1RWHV
 17 1RW 7HVWHG RU ([FOXGHG
 15 1R 5HVXOW
 1\$ 1RW \$\$\$OLFDEOH
)0)DLOXUH 0RGH 8QDFFHSWDEOH

7HVW 3ODQ 3UHIL[

7HVW 3ODQ 0DWHULDO 7HVW

&XUH &\FOH &RQGLWLRQ



, QSXW	7HVW 3ODQ 3UHIL[	7HVW 3ODQ 0DWHULDO	7HVW	&XUH &	FOH &	RQGLWLRQ
\$,75		3:& ,/7 /+	(7:			

7HVW \$,75 3:& ,/7 /+ (7:

0DWHUOZDO &)	5:	1RUPDOLJDWLROUH\$ 3O\ 7KLFNQHV	\$&* ,QF
7HVW 7\SH ,QWUODPLQDU 7HQVLRQ	ORQXWLRQ	(7OLHV_	0DWHULDO 3URFHVV
7HVW 003WKR \$670'			/DERUDWRU\ 5HSRUW

6SHFLPHQ ,'	\$670'	6SHF 'LPHQVLRQV	8OWLPDWH SHDN)DLOKUH
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7KLFN	,Q	:LQWKLQ	QXWLRQ	\$QJH	LG	N	GH	J	u	LOE	&%6	LO ₁	SVL	U	NVL	ORGH
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\$,75	3:& ,/7 % /+	(7:															
\$,75	3:& ,/7 % /+	(7:															
\$,75	3:& ,/7 % /+	(7:															
\$,75	3:& ,/7 % /+	(7:															
\$,75	3:& ,/7 % /+	(7:															
\$,75	3:& ,/7 % /+	(7:															

0LQLPXP																	
0D[LXP																	
\$YHUDJH																	
6WDQGDUG 'HYLDWLRQ																	
&RHIILFLHQW RI 9DULDWLRQ																	
1R 6SHFLPHQV																	

1RWHV
 17 1RW 7HVWHG
 15 1R 5HVXOW
 1\$ 1RW \$\$\$OLFDEOH

normalizing t_{ply}
[in]

Specimen Number	ACG Code	ACG Batch #	ACG Cure Cycle	Prepreg Lot #	Cure Cycle Batch #	Measured Impact Energy (in-lbf)	Strength [ksi]	Avg. Specimen Thickn. [in]	# Plies in Laminate	Failure Mode	Avg. t _{ply} [in]	Strength _{norm} [ksi]		
&..%+ \$	3: &	&\$, % /+	57'	% /+						/'0				
&..%+ \$	3: &	&\$, % /+	57'	% /+						/'0				
&..%+ \$	3: &	&\$, % /+	57'	% /+						/'0				
&..%+ \$	3: &	&\$, % /+	57'	% /+						/'0				
Average							31.709						Average_{norm}	32.322
Standard Dev.							1.067						Standard Dev._{norm}	1.038
Coeff. of Var. [%]							3.365						Coeff. of Var. [%]_{norm}	3.213
Min.							30.183						Min.	30.909
Max.							32.672						Max.	33.344
Number of Spec.							4						Number of Spec.	4

Specimen Number	ACG Code	ACG Batch #	ACG Cure Cycle	Prepreg Lot #	Cure Cycle Batch #	Measured Impact Energy (in-lbf)	Strength [ksi]	Avg. Specimen Thickn. [in]	# Plies in Laminate	Failure Mode	Avg. t _{ply} [in]	Strength _{norm} [ksi]
-----------------	----------	-------------	----------------	---------------	--------------------	---------------------------------	----------------	----------------------------	---------------------	--------------	----------------------------	--------------------------------

\$YHUDJH

\$p Å

\$YHUDJH