

## ABBREVIATIONS AND NOMENCLATURES

<b>Parameter</b>	<b>Description</b>
1D	One Directional
2D	Two Directional
3D	Three Directional
ANOVA	Analysis of Variance
<b>APBICV</b>	A number of Ply, B° Inclination angle, C in Hg Vacuum
ARTM	Advanced Resin Transfer Molding
ASTM	American Society for Testing and Materials
A-VARTM	Advanced VARTMP
BD	Bi Directional
BIRTM	Bladder Inflation Resin Transfer Molding
BM	Bending Moment
BS	Bending Strength
CAPRI	Controlled Atmospheric Pressure Resin Infusion
CFRP	Carbon Fiber Reinforced Plastic
CMC	Ceramic Matrix Composites
CO-RIF	Combined Resin Film Infusion
DAQ	Data Acquisition
DB-VARTM	Double Bladder Vacuum Assisted Resin Transfer Molding
DBVI	Double Bag Vacuum Infusion
DMA	Direct Memory Access
DOE	Design of Experiments
DPI	Dynamic Pulse Infusion
DPRTM	Differential Pressure Resin Transfer Molding
FRC	Fiber Reinforced Composite
FRP	Fiber Reinforced Plastic
FVF	Fiber Volume Fraction
GFRP	Glass Fiber Reinforced Plastic
GSM	Gram per Square Meter
HFVF	High Fiber Volume Fraction
HL	Hand Layup
HPM	High Permeable Media
HP-VARTM	High Pressure Vacuum Assisted Resin Transfer Molding
ILSS	Inter Laminate Shear Stress
IS	Impact Strength
KFRP	Kenaf Fiber Reinforced Plastic
LCM	Liquid Compression Molding
LOI	Loss of Ignition
LVDT	Linear Variable Differential Transformer
MACM	Magnetic Assisted Resin Transfer Molding
MEKP	Methyl Ethyl Ketone Peroxide
MMC	Metal Matrix Composite

MPa	Mega Pascal
NSA	Non Saturated Viscosity
<b>NTEC</b>	N number of layers, resin supply from Top and vacuum from Edge to Centre
PAW	Pressure Application Window
PI	Pressurised Infusion
PLC	Programmable Logic Controller
PMC	Polymer Matrix Composite
PMP	Porous Molding Process
RFI	Resin Film Infusion
RI	Resin Infusion
RIFT	Resin Infusion Flexible Tooling
RPM	Revolution Per Minute
RT	Room Temperature
RTM	Resin Transfer Molding
SA	Saturated Viscosity
SCRIMP	Seeman Composite Resin Infusion Molding Process
SEM	Scanning Electron Microscope
SPI	Static Pulse Infusion
TDR	Time Domain Refractory
TEM	Transmission Electron Microscopy
TERTM	Thermal Expansion Resin Transfer Molding
THF	Tetra Hydro Furan
TM	Tensile Modulus
TPI	Thread Per Inch
TS	Tensile Strength
UD	Uni Directional
VAP	Vacuum Assisted Process
VARI	Vacuum Assisted Resin Infusion
VARTM	Vacuum Assisted Resin Transfer Molding
VB	Vacuum Bagging
VERITy	Vacuum Resin Infusion
VI	Vacuum Infusion
WLVB	Wet Layup Vacuum Bagging
<b>XGYRZV</b>	X GSM, Y RPM and Z in Hg Vacuum
<b>XLWID</b>	X number of Layers With degassing
<b>XLWOD</b>	X number of Layers With Out degassing