RECEIVING REPORT

Receiver No.: 18912757

Document Date: 10/28/2025
Posting Date: 10/28/2025
Expiration Date:

P.O.#: 5300130352
Item #: 3
Batch#: ACE0185957

Insp. Lot: 000001376838
Plant: ACE
Plant Description: Clearfield-Solumina
Vendor Name: HEXCEL CORP
Vendor Addr: 1913 N KING ST
SEGUIN
TX 78155

Quality Inspection

Unloading Point:
Vendor No.: 90069901
Buyer Name: Keith Larsen
SQAR Code: i
Project ID: ASBUX

Test Lab:
WBS:

Inspection Lot/Type:

Rev No.: 01

Material: MSRR4040-VAFR

Received UOM: LB
Base UOM: LB
Base UOM Received Qty: 1830.910

Vendor Mtl. Number:
Mtl.Description: SATIN WEAVE CARBON FIBRE REINFORCED BISM
Mtl.Specification:

Alt. Material #:

Matl. Basic Data Text:
MSRR4040-VAFR:SATIN WEAVE CARBON FIBRE REINFORCED BISM

Bill of Lading: 92SPS057997
Receipt Created by: P02073
Head text:

Delivery Note: 92SPS057997
Received Qty: 1830.910
Receipt Delivered To: _____

WAREHOUSE INFORMATION

Plt: ACE

Part Number: MSRR4040-VAFR

Qty: 1830.91

Receiver No: 18912757

Storage Bin:

Order Number:

Warehouse: LIN1

Stock Type: Q

WBS Element: A-46Z01-NW.N46Z01000714

Inventory WBS: Y-ROLLS

Bin:

Storage Location: **ACED**

Item Text:

SATIN WEAVE CARBON FIBRE REINFORCED BISMALEIMIDE PREIMPREGN
ATTENTION: The revision level for this part is: 4
NG PROJECT: 46001.IN.INV.0RAW, PRIME CONTRACT:
Ship via: Best Way.

RECEIVING REPORT

Receiver No.: 18912757

Document Date:	10/28/2025	**P.O.#:**	5300130352
Posting Date:	10/28/2025	**Item #:**	3
Expiration Date:		**Batch#:**	ACE0185957

SQAR Code and Inspection Details:

Additional line-item provisions (AFQA-0001):
QSB18 – Chemical, Physical, and/or Mechanical Test Reports
QSB19 – Material Certifications
QMC3 – Remaining Shelf Life
QMC5 – Environmental Controls
QMC6 – Environmental Packaging
QSB24 - Certificate of Conformance
QQS12 - Rolls Royce SABRe

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Traceability Control: *********LOT*********

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DRAWINGS <(>&<)> SPECIFICATIONS

SPECIFICATION	REV	TITLE
MSRR4040	4	SATIN WEAVE CARBON FIBRE REINFORCED BISMALEIMIDE PREPREG
MSRR9992	13	APPROVAL, INSPECTION AND TESTING PROCEDURES FOR PRE-IMPREGNATES
MSRR9974	4	ENVIRONMENTAL TESTING OF MATERIALS
RPS670/22	5	BISMALEIMIDE RESIN IMPREGNATED CARBON FIBRE PREIMPREGNATE MOULDING PARAMETERS
MLC104	63	APPROVED CONSUMABLE, NON-METALLIC AND PROPRIETARY MATERIALS

ALL ROLLS-ROYCE SPECIFICATION REVISIONS SHALL BE MAINTAINED TO THE LATEST AVAILABLE THROUGH THE ROLLS-ROYCE SUPPLIER MANAGER WEBSITE.

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Notes to Supplier:
• Direct warp. Warp side up. Blue poly must be touching the warp side. Yellow poly must be touching the weft side.
• Blue poly must be spooled on the outside of the spool
• Material must be manufactured by Hexcel Corporation (West Valley City, UT) or Hexcel Composites (Dagneux, France) per MLC104
• End Customer Rolls Royce
• Continual Improvement SABRe 4 Section 10.3

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TACT STUDY:
* Use Hexcel T6006 method of tack testing for lot acceptance testing.

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PACKAGING, LABELING, AND SHIPPING INSTRUCTIONS:

SHIP ACCORDING TO MSRR9992 SECTION 12, SABRe ED.4 AND PER BEST COMMERCIAL PRACTICE TO ASSURE ACCEPTANCE BY CARRIER AND SAFE DELIVERY AT DESTINATION.

THE MATERIAL S! .ALL BE PACKED IN CONTAINERS THAT SHALL PREVENT DAMAGE AND CONTAMINATION DURING NORMAL HANDLING, TRANSIT AND STORAGE.

EACH REEL SHALL BE SEALED IN A MOISTURE PROOF BAG AND ADEQUATELY SUPPORTED AND PROTECTED TO PREVENT DAMAGE, DISTORTION AND CONTAMINATION DURING NORMAL HANDLING, TRANSIT AND STORAGE.

EACH CONTAINER SHALL BE MARKED WITH THE APPROPRIATE HAZARD WARNING LABEL.

Qty. Insp.	Insp. Stamp No.	By Inspector	Qty. Rej.
Rej. No.	Stocked By	Date Stkd.	Stk. Loc.

Packing list

HEXCEL

Document	92SPS057997
Date	28-Oct-2025
Printed date	28-Oct-2025

Pallet	Box	Batch	Serial	Selling qty	Net weight	Gross weight
		92M0108617	92M0108617013	96.12lb	96.11lb	96.11lb
		92M0108617	92M0108617014	78.85lb	78.85lb	78.85lb
		92M0108617	92M0108617015	87.49lb	87.48lb	87.48lb
		92M0108617	92M0108617016	86.70lb	86.70lb	86.70lb
		92M0108617	92M0108617017	87.09lb	87.09lb	87.09lb
		92M0108617	92M0108617018	87.49lb	87.48lb	87.48lb
		92M0108617	92M0108617019	87.49lb	87.48lb	87.48lb
		92M0108617	92M0108617020	87.49lb	87.48lb	87.48lb
		92M0108617	92M0108617021	103.96lb	103.96lb	103.96lb
Total per Batch 92M0101738		ACE 0185950		79.25lb	18912750	
Total per Batch 92M0105068		ACE 0185951		1,772.85lb	18912751	
Total per Batch 92M0107768		ACE 0185953		87.88lb	18912752	
Total per Batch 92M0108616		ACE 0185954		1,340.92lb	18912754	
Total per Batch 92M0108617		ACE 018 5957		1,830.91lb	18912757	
Total per Item 111545				5,111.81lb	5,111.64lb	5,111.64lb

Line	Item	Description	Selling qty
6 3	92TempRec-Ambient	92TempRec-Ambient	2.00 ea

Customer part	TEMREC		
Ship date	28-Oct-2025		
Sales line LotId	9216849146		
Trade compliance			
Country of origin	RS	Commodity code	9025198085 / TEMPERATURE RECORDER
ECCN	EAR99	End user country	US

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

Pallet	Box	Batch	Serial	Selling qty	Net weight	Gross weight
				2.00ea	0.00lb	
Total per Batch				2.00ea		
Total per Item 92TempRec-Ambient				2.00ea	0.00lb	

Shipping Instructions		**Carrier**	Customer Pick-Up
Mode of Delivery	Ground	**Delivery Terms**	FCA, Salt Lake City, UT, USA - Incoterms®2010

Pallet IDs	Box IDs	Batches	Serial Nos			Net weight	Gross weight
0	0	5	58			5,111.64lb	5,111.64lb

EU TMS Package details

Line 5	0
Line 6	0

MSDS included with this shipment: 20396

Hexcel Corporation
6700 West 5400 South.
West Valley City, UT 84118
United States

MSDS included with this shipment: 20396

Hexcel Corporation
6700 West 5400 South.
West Valley City, UT 84118
United States

Packing list

HEXCEL

Document	92SPS057997
Date	28-Oct-2025
Printed date	28-Oct-2025

Customer P.O.

Packing Slip ID

Customer P.O.	5300130352	**Hexcel order**	92SO024797
Account	C000079	**Account**	C000079

Invoice address

Northrop Grumman Systems Corporation
Enterprise Transaction Services
8710 Freeport Parkway, Suite 200
Irving, TX 75063
United States

Delivery address

Northrop Grumman Systems Corporation
1051 S. Indust. Parkway
(ACCE)
Clearfield, UT 84015
United States

Delivery contact Keith Larsen

Line	Item	Description	Selling qty
~~5~~ 3	~~111545~~	~~HexPly® F3C-433/M65;38%;285AW;50"~~	~~5,111.81 lb~~

Physical dimensions	W = 50.00		
Customer part	MSRR4040-VAFR		
Specification/Issue	MSRR4040/Rev ISSUE 4		
Ship date	28-Oct-2025		
Sales line LotId	9216849145		
Test Results to Follow			
Trade compliance			
Country of origin	US	Commodity code	6815130000 / Other articles of carbon fiber
ECCN	1C010	End user country	US

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

Pallet	Box	Batch	Serial	Selling qty	Net weight	Gross weight
		92M0101738	92M0101738007	79.25lb	79.24lb	79.24lb
		92M0105068	92M0105068001	112.20lb	112.20lb	112.20lb
		92M0105068	92M0105068002	117.30lb	117.30lb	117.30lb
		92M0105068	92M0105068003	116.12lb	116.12lb	116.12lb
		92M0105068	92M0105068004	117.30lb	117.30lb	117.30lb
		92M0105068	92M0105068005	117.30lb	117.30lb	117.30lb
		92M0105068	92M0105068006	116.12lb	116.12lb	116.12lb
		92M0105068	92M0105068007	114.95lb	114.94lb	114.94lb
		92M0105068	92M0105068008	117.69lb	117.69lb	117.69lb
		92M0105068	92M0105068009	25.11lb	25.11lb	25.11lb

PGM7N02J60

PGN7N004C0

MSDS included with this shipment: 20396

Hexcel Corporation
6700 West 5400 South.
West Valley City, UT 84118
United States

Packing list

HEXCEL

Document 92SPS057997
Date 28-Oct-2025
Printed date 28-Oct-2025

Pallet	Box	Batch	Serial	Selling qty	Net weight	Gross weight
		92M0105068	92M0105068010	75.72lb	75.71lb	75.71lb
		92M0105068	92M0105068011	61.59lb	61.59lb	61.59lb
		92M0105068	92M0105068012	83.56lb	83.56lb	83.56lb
		92M0105068	92M0105068013	87.09lb	87.09lb	87.09lb
		92M0105068	92M0105068014	89.84lb	89.84lb	89.84lb
		92M0105068	92M0105068015	85.52lb	85.52lb	85.52lb
		92M0105068	92M0105068016	87.88lb	87.88lb	87.88lb
		92M0105068	92M0105068017	86.31lb	86.31lb	86.31lb
		92M0105068	92M0105068018	84.35lb	84.34lb	84.34lb
		92M0105068	92M0105068019	76.89lb	76.89lb	76.89lb
		92M0107768	92M0107768020	87.88lb	87.88lb	87.88lb
		92M0108616	92M0108616001	80.42lb	80.42lb	80.42lb
		92M0108616	92M0108616002	57.67lb	57.67lb	57.67lb
		92M0108616	92M0108616003	75.32lb	75.32lb	75.32lb
		92M0108616	92M0108616004	97.29lb	97.29lb	97.29lb
		92M0108616	92M0108616005	87.09lb	87.09lb	87.09lb
		92M0108616	92M0108616006	83.56lb	83.56lb	83.56lb
		92M0108616	92M0108616007	87.88lb	87.88lb	87.88lb
		92M0108616	92M0108616008	85.92lb	85.91lb	85.91lb
		92M0108616	92M0108616009	79.64lb	79.64lb	79.64lb
		92M0108616	92M0108616010	92.19lb	92.19lb	92.19lb
		92M0108616	92M0108616011	87.09lb	87.09lb	87.09lb
		92M0108616	92M0108616012	88.27lb	88.27lb	88.27lb
		92M0108616	92M0108616013	87.88lb	87.88lb	87.88lb
		92M0108616	92M0108616014	87.88lb	87.88lb	87.88lb
		92M0108616	92M0108616015	87.88lb	87.88lb	87.88lb
		92M0108616	92M0108616016	74.93lb	74.93lb	74.93lb
		92M0108617	92M0108617001	80.42lb	80.42lb	80.42lb
		92M0108617	92M0108617002	82.39lb	82.38lb	82.38lb
		92M0108617	92M0108617003	86.31lb	86.31lb	86.31lb
		92M0108617	92M0108617004	87.09lb	87.09lb	87.09lb
		92M0108617	92M0108617005	87.88lb	87.88lb	87.88lb
		92M0108617	92M0108617006	86.70lb	86.70lb	86.70lb
		92M0108617	92M0108617007	87.88lb	87.88lb	87.88lb
		92M0108617	92M0108617008	84.74lb	84.74lb	84.74lb
		92M0108617	92M0108617009	86.31lb	86.31lb	86.31lb
		92M0108617	92M0108617010	85.92lb	85.91lb	85.91lb
		92M0108617	92M0108617011	87.88lb	87.88lb	87.88lb
		92M0108617	92M0108617012	84.74lb	84.74lb	84.74lb

MSDS included with this shipment: 20396

Hexcel Corporation
6700 West 5400 South.
West Valley City, UT 84118
United States

HEXCEL

28 October 2025

CERTIFICATE OF ANALYSIS

Customer:	Northrop Grumman Systems Corporation	
Purchase Order No:	5300130352	Part Number: MSRR4040-VAFR
Material:	F3C 433/M65: 38%; 285AW; 50"	
Specification:	MSRR4040, Issue 4, dated November 2012.	
Certificate of Conformance:	Hexcel lot 92M0108617 has been manufactured and tested in conformance with specification MSRR4040, Issue 4, dated November 2012.	
Lot No:	92M0108617	Date of Manufacture: 3 October 2025
Storage Life:	12 months from date of manufacture when stored at 0°.	
Resin Lot No:	92M0108070	Manufactured by: Hexcel
Glass Lot No:	31W0028394	Manufactured by: Hexcel

I. Prepreg Physical, Chemical and Mechanical Properties
See Certificate of Analysis Report.

II. Individual Spool Physical Properties
See In Process Control Acceptance Testing Data.

Note: See Packing List for date of shipment, actual quantity and spools shipped.

Brandi Bond HXSL 268 A

Hexcel Corporation
P. O. Box 18748 – 6700 West 5400 South
Salt Lake City, UT 84118-0748 • USA

Tel (801) 508-8000 – Fax (801) 508-8550
www.hexcel.com

ISO-9001/AS9100/NADCAP CERTIFIED

Matrix Testing Laboratory
5400 S. 6700 W
West Valley City, Utah
84118

Certificate of Analysis Report

Specification: **MSRR4040 Rev. Issue 4**
Configuration Number: **CN1301**
Material Type: **F3C 433/M65;38%;285AW;50"**
Lot Number: **92M0108617**
Order Number: **92M0108617**

Report Printed: 12-Oct-2025 2:01:44PM
Status: **PASS**
Approval: **ANGELOBX**

1. Tensile, SBS, and TG Panel

Dimensional Fiber Volume

Roll/Panel	Test/Result:	Requirements:	Values:
92M0108617001/001	**Laminate Density By Immersion Avg (g/cc)**		**1.5134**
	Laminate Density By Immersion Std (g/cc)		0.0025
	Laminate Density By Immersion CoV		0.16
	Dimensional Fiber Volume (%)		53.95 - 54.23 - 54.88
	Dimensional Fiber Volume Avg (%)	50 - 56	**54**
	Dimensional Fiber Volume Std (%)		0.477
	Dimensional Fiber Volume CoV		0.88
	Void Volume (%)		1.2 - 1.2 - 1.2
	Void Volume Avg (%)	MAX= 2	**1**
	Void Volume Std (%)		0.006
	Void Volume CoV		0.50
92M0108617021/002	**Laminate Density By Immersion Avg (g/cc)**		**1.5098**
	Laminate Density By Immersion Std (g/cc)		0.0026
	Laminate Density By Immersion CoV		0.17
	Dimensional Fiber Volume (%)		52.54 - 53.06 - 53.44
	Dimensional Fiber Volume Avg (%)	50 - 56	**53**
	Dimensional Fiber Volume Std (%)		0.452
	Dimensional Fiber Volume CoV		0.85
	Void Volume (%)		0.9 - 0.8 - 0.9
	Void Volume Avg (%)	MAX= 2	**1**
	Void Volume Std (%)		0.050
	Void Volume CoV		5.63

Short Beam Shear Stress-Warp-Ambient

Roll/Panel	Test/Result:	Requirements:	Values:
92M0108617001/001	SBS Strength (MPa)		87.2 - 85.5 - 85.0 - 84.1 - 88.7
	SBS Strength Avg (MPa)	MIN= 65	**86**
	SBS Strength Std (MPa)		1.87
	SBS Strength CoV		2.17
92M0108617021/002	SBS Strength (MPa)		86.0 - 76.2 - 78.2 - 86.3 - 81.7
	SBS Strength Avg (MPa)	MIN= 65	**82**
	SBS Strength Std (MPa)		4.52
	SBS Strength CoV		5.54

Notice: Values printed with '*' are out of Spec.

HEXCEL
Matrix Testing Laboratory
5400 S. 6700 W
West Valley City, Utah
84118

Certificate of Analysis Report

Specification: MSRR4040 Rev. Issue 4
Configuration Number: CN1301
Material Type: F3C 433/M65;38%;285AW;50"
Lot Number: 92M0108617
Order Number: 92M0108617

Report Printed: 12-Oct-2025 2:01:44PM
Status: **PASS**
Approval: **ANGELOBX**

Short Beam Shear Stress-Warp-150C(302F)

Roll/Panel	Test/Result:	Requirements:	Values:
92M0108617001/001	SBS Strength (MPa)		64.4 - 63.9 - 66.8 - 64.4 - 66.4
	SBS Strength Avg (MPa)	**MIN= 50**	**65**
	SBS Strength Std (MPa)		1.32
	SBS Strength CoV		2.03
92M0108617021/002	SBS Strength (MPa)		63.7 - 64.1 - 63.3 - 68.6 - 62.7
	SBS Strength Avg (MPa)	**MIN= 50**	**64**
	SBS Strength Std (MPa)		2.34
	SBS Strength CoV		3.62

Tg By DMA

Roll/Panel	Test/Result:	Requirements:	Values:
92M0108617001/001	Tg by DMA in °C (° C)		270.0
	Tg by DMA in °C Avg (° C)	**MIN= 225.0**	**270.0**
92M0108617021/002	Tg by DMA in °C (° C)		269.6
	Tg by DMA in °C Avg (° C)	**MIN= 225.0**	**269.6**

Calculated Thickness/Ply

Roll/Panel	Test/Result:	Requirements:	Values:
92M0108617001/001	**Calculated Thickness/Ply Avg (mm)**	**0.28 - 0.32**	**0.29**
	Calculated Thickness/Ply StDev (mm)		0.0025
	Calculated Thickness/Ply CoV		0.49
92M0108617021/002	**Calculated Thickness/Ply Avg (mm)**	**0.28 - 0.32**	**0.30**
	Calculated Thickness/Ply StDev (mm)		0.0025
	Calculated Thickness/Ply CoV		1.08

Tensile Stress, Modulus, and Elongation-Warp-Ambient

Roll/Panel	Test/Result:	Requirements:	Values:
92M0108617001/001	Norm Tensile Strength (MPa)		936.3 - 914.8 - 971.5 - 912.9 - 936.6
	Norm Tensile Strength Avg (MPa)	**MIN= 700**	**934**
	Norm Tensile Strength Std (MPa)		23.63
	Norm Tensile Strength CoV		2.53
	Norm Modulus (GPa)		61.9 - 62.2 - 63.3 - 61.9 - 61.8
	Norm Modulus Avg (GPa)	**MIN= 55**	**62**

Notice: Values printed with '*' are out of Spec.

HEXCEL
Matrix Testing Laboratory
5400 S. 6700 W
West Valley City, Utah
84118

Certificate of Analysis Report

Specification: **MSRR4040 Rev. Issue 4**
Configuration Number: **CN1301**
Material Type: **F3C 433/M65;38%;285AW;50"**
Lot Number: **92M0108617**
Order Number: **92M0108617**

Report Printed: 12-Oct-2025 2:01:44PM
Status: **PASS**
Approval: **ANGELOBX**

Tensile Stress, Modulus, and Elongation-Warp-Ambient (Continued)

Roll/Panel	Test/Result:	Requirements:	Values:
92M0108617001/001	Norm Modulus Std (GPa)		0.600
	Norm Modulus CoV		0.96
92M0108617021/002	Norm Tensile Strength (MPa)		879.8 - 919.9 - 908.9 - 947.4 - 912.7
	Norm Tensile Strength Avg (MPa)	**MIN= 700**	**914**
	Norm Tensile Strength Std (MPa)		24.22
	Norm Tensile Strength CoV		2.65
	Norm Modulus (GPa)		63.2 - 62.6 - 63.7 - 61.9 - 63.5
	Norm Modulus Avg (GPa)	**MIN= 55**	**63**
	Norm Modulus Std (GPa)		0.758
	Norm Modulus CoV		1.21

2. PHYSICAL PROPERTIES

Volatile content @100°C in pan

Roll	Test/Result:	Requirements:	Values:
92M0108617001	Volatile content @100°C in a Pan (%)		0.5 - 0.5
	Volatile content @100°C in a Pan Avg (%)	**MAX= 1**	**0**
92M0108617021	Volatile content @100°C in a Pan (%)		0.4 - 0.4
	Volatile content @100°C in a Pan Avg (%)	**MAX= 1**	**0**

3. PHYSICAL TACK

Tack

Roll	Test/Result:	Requirements:	Values:
92M0108617001	Tack Time to Failure (min.)	MIN= 30	30 - 30
	Tack Time to Failure Avg (min.)	**MIN= 30**	**30**
92M0108617003	Tack Time to Failure (min.)	MIN= 30	30 - 30
	Tack Time to Failure Avg (min.)	**MIN= 30**	**30**
92M0108617005	Tack Time to Failure (min.)	MIN= 30	30 - 30
	Tack Time to Failure Avg (min.)	**MIN= 30**	**30**
92M0108617007	Tack Time to Failure (min.)	MIN= 30	30 - 30
	Tack Time to Failure Avg (min.)	**MIN= 30**	**30**

Notice: Values printed with '*' are out of Spec.

Matrix Testing Laboratory
5400 S. 6700 W
West Valley City, Utah
84118

Certificate of Analysis Report

Specification: MSRR4040 Rev. Issue 4
Configuration Number: CN1301
Material Type: F3C 433/M65;38%;285AW;50"
Lot Number: 92M0108617
Order Number: 92M0108617

Report Printed: 12-Oct-2025 2:01:44PM
Status: **PASS**
Approval: **ANGELOBX**

Tack (Continued)

Roll	Test/Result:	Requirements:	Values:
92M0108617009	Tack Time to Failure (min.)	MIN= 30	30 - 30
	Tack Time to Failure Avg (min.)	**MIN= 30**	**30**
92M0108617011	Tack Time to Failure (min.)	MIN= 30	30 - 30
	Tack Time to Failure Avg (min.)	**MIN= 30**	**30**
92M0108617013	Tack Time to Failure (min.)	MIN= 30	30 - 30
	Tack Time to Failure Avg (min.)	**MIN= 30**	**30**
92M0108617015	Tack Time to Failure (min.)	MIN= 30	30 - 30
	Tack Time to Failure Avg (min.)	**MIN= 30**	**30**
92M0108617017	Tack Time to Failure (min.)	MIN= 30	30 - 30
	Tack Time to Failure Avg (min.)	**MIN= 30**	**30**
92M0108617019	Tack Time to Failure (min.)	MIN= 30	30 - 30
	Tack Time to Failure Avg (min.)	**MIN= 30**	**30**
92M0108617021	Tack Time to Failure (min.)	MIN= 30	30 - 30
	Tack Time to Failure Avg (min.)	**MIN= 30**	**30**

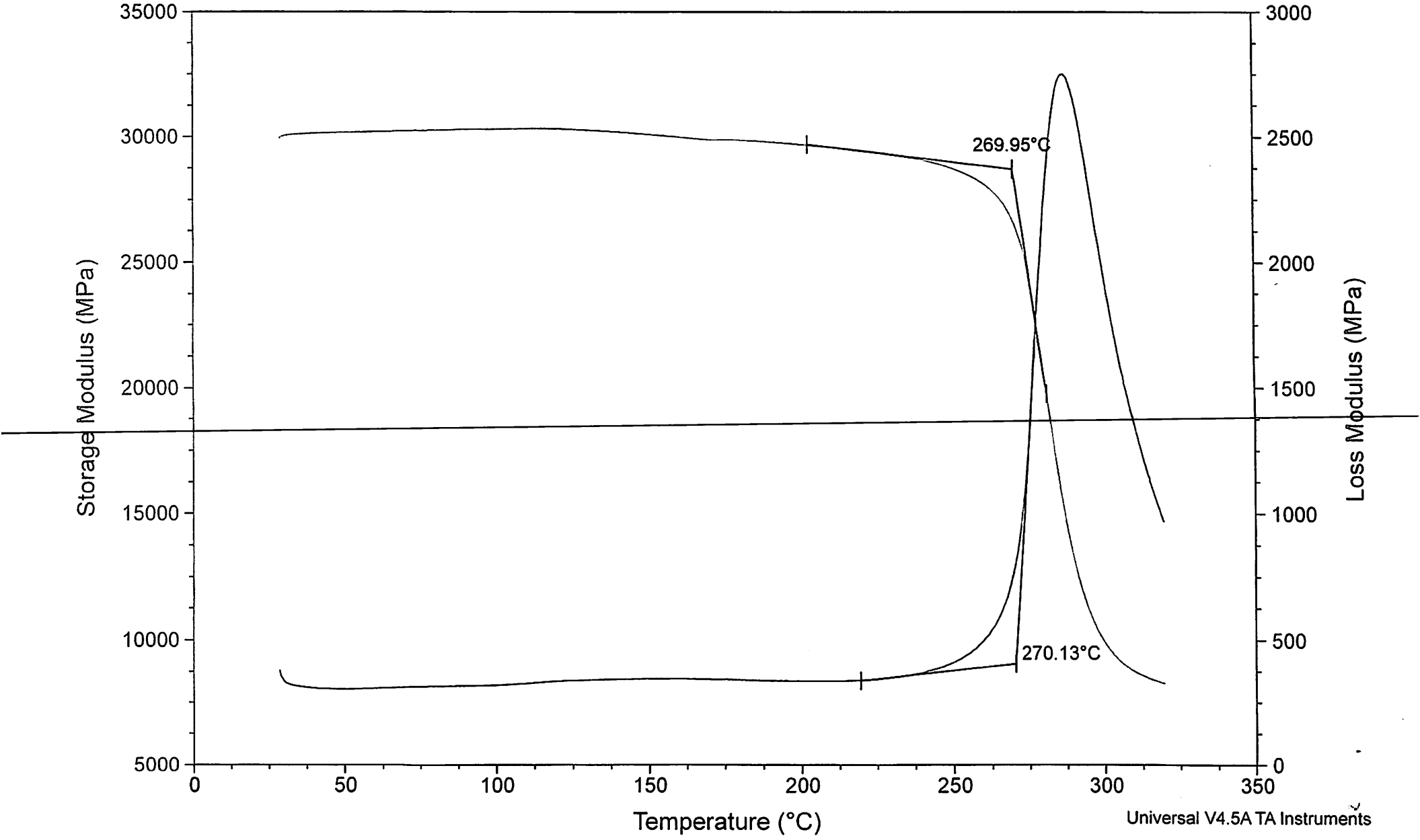
End of report

Notice: Values printed with '*' are out of Spec.

Sample: 92M0108617-001 Sp001
Size: 34.9700 x 9.9200 x 2.3600 mm
Method: Temperature Ramp

DMA

File: \\...\DMA Q800-2357\M56\92M0108617.001
Operator: RB
Run Date: 11-Oct-2025 23:26
Instrument: DMA Q800 V21.3 Build 96

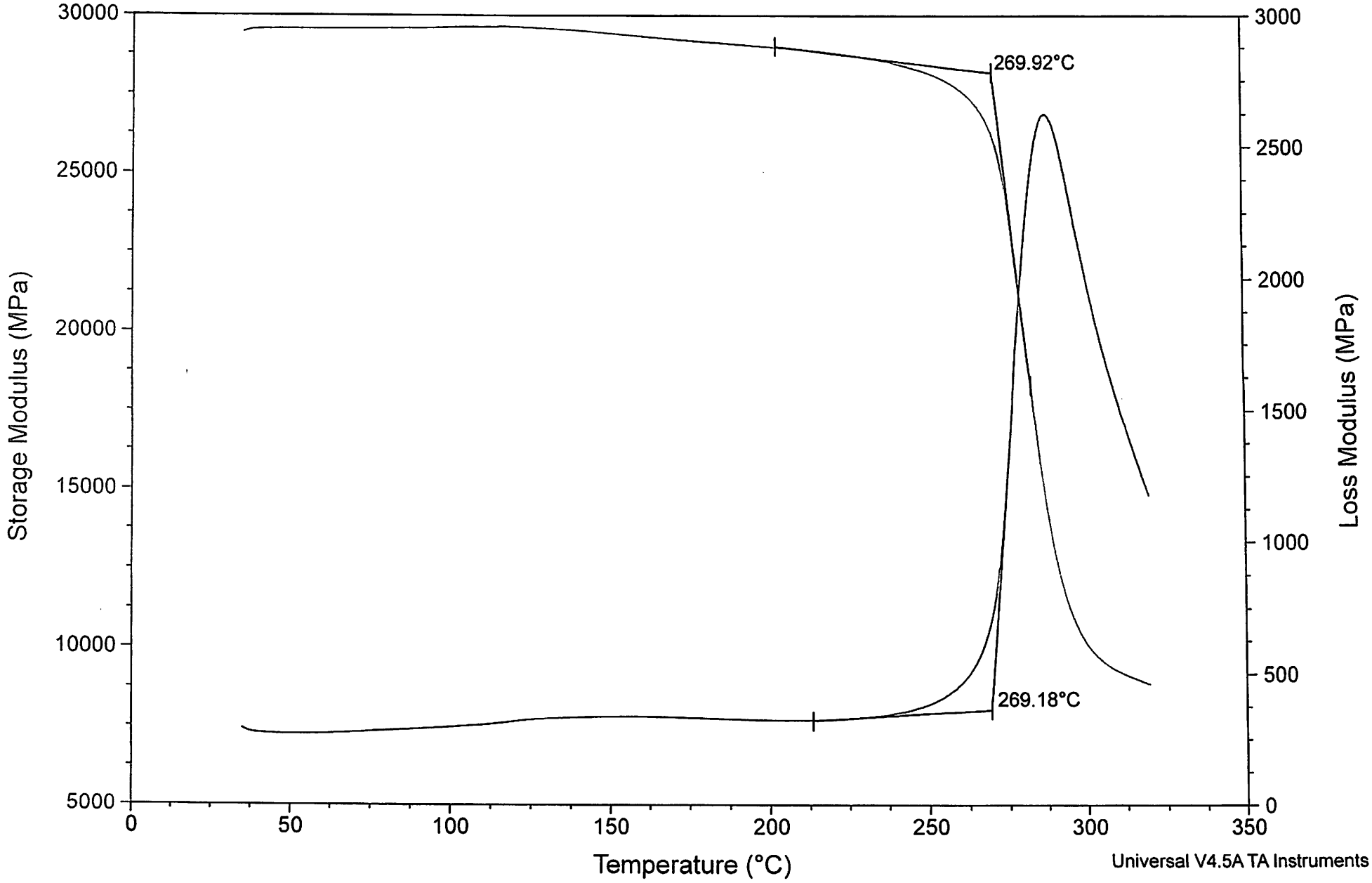


Universal V4.5A TA Instruments

Sample: 92M0108617-002 Sp021
Size: 34.9600 x 9.9200 x 2.4000 mm
Method: Temperature Ramp

DMA

File: \\...\DMA Q800-2357\M56\92M0108617.002
Operator: RB
Run Date: 12-Oct-2025 00:54
Instrument: DMA Q800 V21.3 Build 96



Universal V4.5A TA Instruments

IN PROCESS CONTROL

ACCEPTANCE TESTING DATA

RC / AWT Report for lot: **92M0108617** 10/27/2025

Spool	Re - test	Rep	Init - Weight	Final Weight	RC	AWT	PAW	Width	Stat.	Tech	Date
92M 0108617001	0	1	4.6402	2.8221	39.2	282	464.0			CAZAREYX	10/03/2025
		2	4.6287	2.8646	38.1	286	462.9			CAZAREYX	10/03/2025
		3	4.5631	2.8240	38.1	282	456.3			CAZAREYX	10/03/2025
		Avg.	4.6107		38	284	461	50.35	A	CAZAREYX	10/03/2025
92M 0108617002	0	1	4.6115	2.8188	38.9	282	461.2			CAZAREYX	10/03/2025
		2	4.6249	2.8122	39.2	281	462.5			CAZAREYX	10/03/2025
		3	4.5787	2.8208	38.4	282	457.9			CAZAREYX	10/03/2025
		Avg.	4.6050		39	282	460	50.28	A	CAZAREYX	10/03/2025
92M 0108617003	0	1	4.5902	2.8169	38.6	282	459.0			CAZAREYX	10/03/2025
		2	4.6299	2.8084	39.3	281	463.0			CAZAREYX	10/03/2025
		3	4.5945	2.8086	38.9	281	459.4			CAZAREYX	10/03/2025
		Avg.	4.6049		39	281	460	50.35	A	CAZAREYX	10/03/2025
92M 0108617004	0	1	4.6206	2.8102	39.2	281	462.1			CAZAREYX	10/03/2025
		2	4.5824	2.8031	38.8	280	458.2			CAZAREYX	10/03/2025
		3	4.6403	2.8199	39.2	282	464.0			CAZAREYX	10/03/2025
		Avg.	4.6144		39	281	461	50.34	A	CAZAREYX	10/03/2025
92M 0108617005	0	1	4.5271	2.8158	37.8	282	452.7			CAZAREYX	10/03/2025
		2	4.6067	2.7990	39.2	280	460.7			CAZAREYX	10/03/2025
		3	4.5590	2.8262	38.0	283	455.9			CAZAREYX	10/03/2025
		Avg.	4.5643		38	281	456	50.35	A	CAZAREYX	10/03/2025
92M 0108617006	0	1	4.6647	2.8309	39.3	283	466.5			CAZAREYX	10/03/2025
		2	4.6711	2.8131	39.8	281	467.1			CAZAREYX	10/03/2025
		3	4.6689	2.8317	39.3	283	466.9			CAZAREYX	10/03/2025
		Avg.	4.6682		40	282	467	50.30	A	CAZAREYX	10/03/2025
92M 0108617007	0	1	4.6136	2.8252	38.8	282	461.4			CAZAREYX	10/03/2025
		2	4.6110	2.8221	38.8	282	461.1			CAZAREYX	10/03/2025
		3	4.6569	2.8206	39.4	282	465.7			CAZAREYX	10/03/2025
		Avg.	4.6272		39	282	463	50.30	A	CAZAREYX	10/03/2025
92M 0108617008	0	1	4.5866	2.8252	38.4	282	458.7			CAZAREYX	10/03/2025
		2	4.6417	2.8294	39.0	283	464.2			CAZAREYX	10/03/2025
		3	4.6360	2.8161	39.3	282	463.6			CAZAREYX	10/03/2025
		Avg.	4.6214		39	282	462	50.35	A	CAZAREYX	10/03/2025
92M 0108617009	0	1	4.5843	2.8204	38.5	282	458.4			CAZAREYX	10/03/2025
		2	4.5844	2.8122	38.7	281	458.4			CAZAREYX	10/03/2025
		3	4.5669	2.8314	38.0	283	456.7			CAZAREYX	10/03/2025
		Avg.	4.5785		38	282	458	50.35	A	CAZAREYX	10/03/2025
92M 0108617010	0	1	4.6755	2.8367	39.3	284	467.6			CAZAREYX	10/03/2025
		2	4.6494	2.8480	38.7	285	464.9			CAZAREYX	10/03/2025
		3	4.6544	2.8446	38.9	284	465.4			CAZAREYX	10/03/2025
		Avg.	4.6598		39	284	466	50.30	A	CAZAREYX	10/03/2025
92M 0108617011	0	1	4.5940	2.8126	38.8	281	459.4			CAZAREYX	10/03/2025
		2	4.6168	2.8325	38.6	283	461.7			CAZAREYX	10/03/2025
		3	4.5726	2.8221	38.3	282	457.3			CAZAREYX	10/03/2025

IN PROCESS CONTROL

ACCEPTANCE TESTING DATA

RC / AWT Report for lot: **92M0108617** 10/27/2025

Spool	Re - test	Rep	Init - Weight	Final Weight	RC	AWT	PAW	Width	Stat.	Tech	Date
		Avg.	4.5945		39	282	460	50.35	A	CAZAREYX	10/03/2025
92M 0108617012	0	1	4.6278	2.8308	38.8	283	462.8			CAZAREYX	10/03/2025
		2	4.6053	2.7185	41.0	272	460.5			CAZAREYX	10/03/2025
		3	4.6386	2.8436	38.7	284	463.9			CAZAREYX	10/03/2025
		Avg.	4.6239		40	280	462	50.30	A	CAZAREYX	10/03/2025
92M 0108617013	0	1	4.6384	2.8273	39.0	283	463.8			CAZAREYX	10/03/2025
		2	4.6500	2.8313	39.1	283	465.0			CAZAREYX	10/03/2025
		3	4.6710	2.8448	39.1	284	467.1			CAZAREYX	10/03/2025
		Avg.	4.6531		39	283	465	50.30	A	CAZAREYX	10/03/2025
92M 0108617014	0	1	4.6215	2.8131	39.1	281	462.2			CAZAREYX	10/03/2025
		2	4.6390	2.8165	39.3	282	463.9			CAZAREYX	10/03/2025
		3	4.5954	2.8050	39.0	280	459.5			CAZAREYX	10/03/2025
		Avg.	4.6186		39	281	462	50.30	A	CAZAREYX	10/03/2025
92M 0108617015	0	1	4.6240	2.8187	39.0	282	462.4			CAZAREYX	10/03/2025
		2	4.6327	2.8275	39.0	283	463.3			CAZAREYX	10/03/2025
		3	4.6127	2.8140	39.0	281	461.3			CAZAREYX	10/03/2025
		Avg.	4.6231		39	282	462	50.30	A	CAZAREYX	10/03/2025
92M 0108617016	0	1	4.5624	2.8005	38.6	280	456.2			CAZAREYX	10/03/2025
		2	4.5431	2.8057	38.2	281	454.3			CAZAREYX	10/03/2025
		3	4.5878	2.8073	38.8	281	458.8			CAZAREYX	10/03/2025
		Avg.	4.5644		38	280	456	50.30	A	CAZAREYX	10/03/2025
92M 0108617017	0	1	4.6112	2.8066	39.1	281	461.1			CAZAREYX	10/03/2025
		2	4.6222	2.8184	39.0	282	462.2			CAZAREYX	10/03/2025
		3	4.6089	2.8070	39.1	281	460.9			CAZAREYX	10/03/2025
		Avg.	4.6141		39	281	461	50.35	A	CAZAREYX	10/03/2025
92M 0108617018	0	1	4.6286	2.8231	39.0	282	462.9			CAZAREYX	10/03/2025
		2	4.6246	2.8137	39.2	281	462.5			CAZAREYX	10/03/2025
		3	4.6144	2.8074	39.2	281	461.4			CAZAREYX	10/03/2025
		Avg.	4.6225		39	282	462	50.30	A	CAZAREYX	10/03/2025
92M 0108617019	0	1	4.6129	2.8125	39.0	281	461.3			CAZAREYX	10/03/2025
		2	4.6450	2.8250	39.2	282	464.5			CAZAREYX	10/03/2025
		3	4.6303	2.8213	39.1	282	463.0			CAZAREYX	10/03/2025
		Avg.	4.6294		39	282	463	50.35	A	CAZAREYX	10/03/2025
92M 0108617020	0	1	4.5683	2.8247	38.2	282	456.8			CAZAREYX	10/03/2025
		2	4.5758	2.8097	38.6	281	457.6			CAZAREYX	10/03/2025
		3	4.5416	2.8113	38.1	281	454.2			CAZAREYX	10/03/2025
		Avg.	4.5619		38	282	456	50.30	A	CAZAREYX	10/03/2025
92M 0108617021	0	1	4.6266	2.8108	39.2	281	462.7			THOMASMY	10/04/2025
		2	4.6184	2.8175	39.0	282	461.8			THOMASMY	10/04/2025
		3	4.6494	2.8288	39.2	283	464.9			THOMASMY	10/04/2025
		Avg.	4.6315		39	282	463	50.35	A	THOMASMY	10/04/2025

IN PROCESS CONTROL

ACCEPTANCE TESTING DATA

Lot Averages Report for Lot: **92M0108617** 10/27/2025

Spool	Retest:	RC	AWT	PAW	Stamp
92M0108617001	0	38	284	461	A
92M0108617002	0	39	282	460	A
92M0108617003	0	39	281	460	A
92M0108617004	0	39	281	461	A
92M0108617005	0	38	281	456	A
92M0108617006	0	40	282	467	A
92M0108617007	0	39	282	463	A
92M0108617008	0	39	282	462	A
92M0108617009	0	38	282	458	A
92M0108617010	0	39	284	466	A
92M0108617011	0	39	282	460	A
92M0108617012	0	40	280	462	A
92M0108617013	0	39	283	465	A
92M0108617014	0	39	281	462	A
92M0108617015	0	39	282	462	A
92M0108617016	0	38	280	456	A
92M0108617017	0	39	281	461	A
92M0108617018	0	39	282	462	A
92M0108617019	0	39	282	463	A
92M0108617020	0	38	282	456	A
92M0108617021	0	39	282	463	A
Averages:		38.9	281.9	461.0	

HEXCEL Product Certification

COA Number:	SEG-COA-28995	Prod Order:	DOM:	Description:
Version:	1	31W0028394	06-Aug-2025	F3C433(FBL2)-50"
Issue Date:	23-Sep-2025	Weave Pattern:	5 Harness Satin	

Specifications
F3C433(FBL2) - GREIGE - 50inch - HRMS 111546 Rev. 6 Warp Yarn HTA40 E13 3K 200tex Fill Yarn HTA40 E13 3K 200tex
F3C433(FBL2) - GREIGE - 50inch - MSRR4040 Issue 4 Warp Yarn HTA40 E13 3K 200tex Fill Yarn HTA40 E13 3K 200tex
F3C433(FBL2) - GREIGE - 50inch - MSRR9992 Issue 12 Warp Yarn HTA40 E13 3K 200tex Fill Yarn HTA40 E13 3K 200tex

Rolls Tested

Fabric Testing Results

Serial#:	Prod Order:	Property:	Specification:	Result:
31G0000376092	31W0028394	Width	49.5 - 50.5 in	50.4
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.8
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.4
		Dried FAW Avg	278 - 292 g/m²	284
31G0000376093		Width	49.5 - 50.5 in	50.2
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.9
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.4
		Dried FAW Avg	278 - 292 g/m²	281
31G0000376094		Width	49.5 - 50.5 in	50.2
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.8
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.5
		Dried FAW Avg	278 - 292 g/m²	284
31G0000376095		Width	49.5 - 50.5 in	50.2
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.9
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.4
		Dried FAW Avg	278 - 292 g/m²	282
31G0000376096		Width	49.5 - 50.5 in	50.2
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.9
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.4

This is to certify that material shipped against this order meets the specification(s) listed above.

1913 N. King Street, Seguin, TX 78155
Telephone (830) 379-1580 Fax (830) 379-3814
www.hexcel.com

Michael Galvan
Certification Technician

HEXCEL

Product Certification

31G0000376096	31W0028394	Dried FAW Avg	278 - 292 g/m²	283
31G0000376097		Width	49.5 - 50.5 in	50.2
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.8
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.4
		Dried FAW Avg	278 - 292 g/m²	281
31G0000376098		Width	49.5 - 50.5 in	50.2
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.9
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.4
		Dried FAW Avg	278 - 292 g/m²	283
31G0000376099		Width	49.5 - 50.5 in	50.2
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.9
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.4
		Dried FAW Avg	278 - 292 g/m²	282
31G0000376100		Width	49.5 - 50.5 in	50.3
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.7
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.4
		Dried FAW Avg	278 - 292 g/m²	278
31G0000376101		Width	49.5 - 50.5 in	50.3
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.8
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.3
		Dried FAW Avg	278 - 292 g/m²	280
31G0000376102		Width	49.5 - 50.5 in	50.3
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.8
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.4
		Dried FAW Avg	278 - 292 g/m²	280
31G0000376103		Width	49.5 - 50.5 in	50.3
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.8
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.4
		Dried FAW Avg	278 - 292 g/m²	279
31G0000376104		Width	49.5 - 50.5 in	50.3
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.8
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.4

This is to certify that material shipped against this order meets the specification(s) listed above.

1913 N. King Street, Seguin, TX 78155
Telephone (830) 379-1580 Fax (830) 379-3814
www.hexcel.com

Michael Galvan
Certification Technician

HEXCEL Product Certification

31G0000376104	31W0028394	Dried FAW Avg	278 - 292 g/m²	280
31G0000376115		Width	49.5 - 50.5 in	50.2
		Ends per inch	17.0 - 18.5 Yarns Per Inch	17.7
		Picks per inch	17.0 - 18.5 Yarns Per Inch	17.4
		Dried FAW Avg	278 - 292 g/m²	283

Certification Exceptions/Additional Information

QMS07045, REV. 1, SEC. 5E

WARP: 250120210
FILL: 250120210

This is to certify that material shipped against this order meets the specification(s) listed above.

This report should only be reproduced in its entirety
1913 N. King Street, Seguin, TX 78155
Telephone (830) 379-1580 Fax (830) 379-3814
www.hexcel.com

Michael Galvan
Certification Technician

TEIJIN

TEIJIN CARBON AMERICA, INC.

121 Cardiff Valley Road
Rockwood, TN 37854
Tel. (865) 354-8408
Fax (865) 354-8409

Certificate of Analysis

QAP 004.F2 Rev M

Customer:	Hexcel Reinforcement Corp (TX)	Contact:	Patrick Spieckermann; Amy Shehane; Jerry Tschoepe; Greg Early	Email/Fax:	Patrick.Spieckermann@hexcel.com; amy.shehane@hexcel.com; jerry.tschoepe@; Greg.Early@
CustomerPO#:	31PO0014283	Order:	SH001734	Ship Date:	7/1/2025
Customer P/N:	n/a	Product:	Tenax™-E HTA40 E13 3K 200tex		
Part Number:	G305303	Quantity:	10000.066 lb	Certifies To:	MS-X-CTC-105 Rev B; MSRR9317/11 Issue 1
Lot Number:	***250120210***				

We are pleased to advise that the product (s) listed above has been released for shipment. We certify that this lot of Carbon Fiber has been tested by standard test methods and determined to have the following properties:

	Average		cv%
Tensile Strength, MPA (ksi):	4145.8	(601)	4.2
Tensile Modulus, GPA (msi):	238.4	(34.6)	0.8
Elongation, %:	1.64		4.0
Linear Density (without size), g/m:	0.1994		1.0
Size, %:	1.27		7.3
Fiber Density, g/cc:	1.77		
Filament Diameter, µM:	7		
Twist, turn/m:	Never Twisted		
Date of Manufacture:	January 2025		
Manufacturing Location:	Oberbruch, Heinsberg, Germany		

Quality Assurance 6/30/2025

These commodities, technology or software are controlled by U. S. Export Administration Regulation. Diversion contrary to U. S. Law is prohibited.

If goods are not received in a reasonable time or if there are any questions, please call 1-800-252-3001 (or (865) 354-8408).
Teijin Carbon America, Inc. 121 Cardiff Valley Road, Rockwood, TN 37854.

ROLL CONDITION LOG

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617001	F3C433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
31	50	180	62.5	WRINKLES
38	50	0	0.0	FUZZBALL

Roll label - Hexcel
F3C 433/M65:38%:285AW:50"

111545	92M0108617	365 days	03-Oct-2025
205.00ft	92M0108617001	≤ 0 F	03-Oct-2026

Final Footage	Net Feet	Credit Method	Defect %	Date
220	205	A	6.818%	10/3/2025

Inspection Stamp	Date
	10/3/2025

ROLL CONDITION LOG

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617002	F3C433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
29	50	3	1.0	WRINKLES
106	50	0	0.0	FUZZBALL
179	50	0	0.0	FUZZBALL

Bag label - Hexcel
F3C 433/M65;38%;285AW 50"

111545	92M0108617	365 days	03-Oct-2025
210.00ft	92M0108617002	≤ 0 F	03-Oct-2025

Final Footage	Net Feet	Credit Method	Defect %	Date
211	210	A	0.118%	10/3/2025

Inspection Stamp	Date
AQI	10/3/2025

ROLL CONDITION LOG

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617003	F3C433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
16	50	0	0.0	FUZZBALL
107	50	3	1.0	FUZZBALL
128	50	36	12.5	RESIN LEAN
185	50	5	1.7	RESIN LEAN

Final Footage	Net Feet	Credit Method	Defect %	Date
224	220	A	1.637%	10/3/2025

Inspection Stamp	Date
	10/3/2025

ROLL CONDITION LOG

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617004	F3C433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
16	50	6	2.1	HOLE
98	50	0	0.0	FUZZBALL
127	50	0	0.0	FUZZBALL

Final Footage	Net Feet	Credit Method	Defect %	Date
223	222	A	0.224%	10/3/2025

Inspection Stamp	Date
	10/3/2025

ROLL CONDITION LOG

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617005	F3C433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
94	50	0	0.0	FUZZBALL

Final Footage	Net Feet	Credit Method	Defect %	Date
224	224	A	0.000%	10/3/2025

Inspection Stamp	Date
	10/3/2025

ROLL CONDITION LOG

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617006	F3C433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
30	50	0	0.0	FUZZBALL
85	50	0	0.0	FUZZBALL
162	50	0	0.0	FUZZBALL
169	50	36	12.5	RESIN LEAN

Roll label - Hexcel
F3C 433/M65:38%:285AW:50"

111545	92M0108617	365 days	03-Oct-2025
221.00ft	92M0108617006	≤ 0 F	03-Oct-2026

Final Footage	Net Feet	Credit Method	Defect %	Date
224	221	A	1.339%	10/3/2025

Inspection Stamp	Date
FIRST AQI	10/3/2025

ROLL CONDITION LOG

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617007	F3C433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
9	50	0	0.0	FUZZBALL
20	50	0	0.0	FUZZBALL

Final Footage	Net Feet	Credit Method	Defect %	Date
224	224	A	0.000%	10/3/2025

Inspection Stamp	Date
HCEL AOI MO	10/3/2025

ROLL CONDITION LOG

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617008	F3C433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks

Final Footage	Net Feet	Credit Method	Defect %	Date
216	216	A	0.000%	10/3/2025

Inspection Stamp	Date
	10/3/2025

ROLL CONDITION LOG

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617009	F3C433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
31	50	0	0.0	FUZZBALL
108	50	0	0.0	FUZZBALL
144	50	0	0.0	FUZZBALL
199	50	48	16.7	RESIN LEAN

Final Footage	Net Feet	Credit Method	Defect %	Date
224	220	A	1.786%	10/3/2025

Inspection Stamp	Date
	10/3/2025

ROLL CONDITION LOG

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617010	F3C433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
173	50	36	12.5	WRINKLES

Final Footage	Net Feet	Credit Method	Defect %	Date
222	219	A	1.351%	10/3/2025

Inspection Stamp	Date
	10/3/2025

ROLL CONDITION LOG

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617011	F3C433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks

Final Footage	Net Feet	Credit Method	Defect %	Date
224	224	A	0.000%	10/3/2025

Inspection Stamp	Date
	10/3/2025

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617012	F3C 433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
32	50	72	25.0	WRINKLES
38	50	4	1.4	WRINKLES
44	50	3	1.0	FUZZBALL

Roll label - Hexcel Hexcel 6700 AL 5430 S SLC Lot 64113
F3C 433/M65;38%;285AW;50"
HSR8202 Rev. ISSUE 4

Product	Batch	Shelf life	Cert
111545	92M0108617	365 days	03-Oct-2025
Length	Serial	Storage conditions	Expiration
216.00ft	92M0108617012	≤ 0 F	03-Oct-2026

Final Footage	Net Feet	Credit Method	Defect %	Date
223	216	A	2.952%	10/3/2025

Inspection Stamp	Date
	10/3/2025

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617013	F3C 433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks

Roll label - Hexce, Hexce [illegible]
F3C 433/M65;38%:285AW:50"

111545	92M0108617	365 days	03-Oct-2025
245.00ft	92M0108617013	≤ 0 F	03-Oct-2026

Final Footage	Net Feet	Credit Method	Defect %	Date
245	245	A	0.000%	10/3/2025

Inspection Stamp	Date
HXSL 90 [illegible]	10/3/2025

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617014	F3C 433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
42	50	3	1.0	FUZZBALL
63	50	3	1.0	SPLICE

Final Footage	Net Feet	Credit Method	Defect %	Date
202	201	A	0.248%	10/3/2025

Bag label - Hexcel [illegible]
F3C 433/M65;38%;285AW;50"

111545	92M0108617	365 days	03-Oct-2025
201.00ft	92M0108617014	≤ 0 F	03-Oct-2026

Inspection Stamp	Date
073	10/3/2025

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617015	F3C 433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks

Roll Label - Hexcel [illegible]
F3C 433/M65;38%:285AW:50"
[illegible]

	Batch	[illegible]	Date
111545	92M0108617	365 days	03-Oct-2025
[illegible]	Serial	[illegible]	[illegible]
223.00ft	92M0108617015	≤ 0 F	03-Oct-2026

Final Footage	Net Feet	Credit Method	Defect %	Date
223	223	A	0.000%	10/3/2025

Inspection Stamp	Date
	10/3/2025

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617016	F3C 433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
108	50	0	0.0	FUZZBALL
120	50	0	0.0	FUZZBALL
155	50	0	0.0	FUZZBALL
198	50	12	4.2	CURED RESIN
204	50	2	0.7	RESIN LEAN
209	50	2	0.7	RESIN LEAN

Ro label - Hexcel
F3C 433/M65 38%:285AW:50"

111545	92M0108617	365 days	03-Oct-2025
221.00ft	92M0108617016	≤ 0 F	03-Oct-2026

Final Footage	Net Feet	Credit Method	Defect %	Date
223	221	A	0.598%	10/3/2025

Inspection Stamp	Date
	10/3/2025

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617017	F3C 433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
1	50	2	0.7	RESIN LEAN
124	50	0	0.0	FUZZBALL
200	50	2	0.7	FUZZBALL
206	50	2	0.7	FUZZBALL

Bag Label - Hexcel
F3C 433/M65;38%;285AW;50"

111545	92M0108617	365 days	03-Oct-2025
222.00ft	92M0108617017	≤ 0 F	03-Oct-2026

Final Footage	Net Feet	Credit Method	Defect %	Date
223	222	A	0.224%	10/3/2025

Inspection Stamp	Date
	10/3/2025

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617018	F3C 433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
30	50	0	0.0	FUZZBALL

Roll label - Hexcel
F3C 433/M65;38%:285AW:50"

111545	92M0108617	365 days	03-Oct-2025
223.00ft	92M0108617018	≤ 0 F	03-Oct-2026

Final Footage	Net Feet	Credit Method	Defect %	Date
223	223	A	0.000%	10/3/2025

Inspection Stamp	Date
	10/3/2025

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617019	F3C 433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks

Bag label - Hexce. [illegible]
F3C 433/M65;38%:285AW:50"
[illegible] Rev. ISSUE 4

111545	92M0108617	365 days	03-Oct-2025
223.00ft	92M010861701 9	≤ 0 F	03-Oct-2026

Final Footage	Net Feet	Credit Method	Defect %	Date
223	223	A	0.000%	10/3/2025

Inspection Stamp	Date
	10/3/2025

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617020	F3C 433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks
104	50	3	1.0	FUZZBALL

Ro: .abel - Hexcel Hexcel
F3C 433/M65;38%;285AW;50"

111545	92M0108617	365 days	03-Oct-2025
223.00ft	92M0108617020	≤ 0 F	03-Oct-2026

Final Footage	Net Feet	Credit Method	Defect %	Date
224	223	A	0.112%	10/4/2025

Inspection Stamp	Date
	10/4/2025

Batch Number	Serial Number	Fiber	Resin	Prepreg Width
92M0108617	92M0108617021	F3C 433	M65	50

Feet From Start	Defect Width (inches)	Defect Length (inches)	Credit Amount (sq. ft.)	Defect Type Remarks

Roll label - Hexce, Hexce [illegible]
F3C 433;M65;38%;285AW;50"
[illegible]

111545	92M0108617	365 days	03-Oct-2025
265.00ft	92M0108617021	≤ 0 F	03-Oct-2026

Final Footage	Net Feet	Credit Method	Defect %	Date
265	265	A	0.000%	10/4/2025

Inspection Stamp	Date
	10/4/2025