

## Adhesive Film

Part Number	Manufacturer (Mfr Part #) <sup>2</sup>	Specification	Type	Class	Grade/Style/Form	Material Weight	Roll Size <sup>1</sup>	Cure Temp
HCS2404-010	3M (AF163-2K)	BMS5-101	2	N/A	Grade 10	.060lb/ft <sup>2</sup> (0.293kg/m <sup>2</sup> )	36in x 50yds (91.44cm x 45.72m)	250°F (121°C)
		BMS5-129	4	IID	Grade 10			
HCS2404-030	3M (AF-126-2)	BMS5-129	2	IIA	Grade 5	.030lb/ft <sup>2</sup> (0.146kg/m <sup>2</sup> )	36in x 36yds (91.44cm x 32.92m)	250°F (121°C)
HCS2404-040	Cytec (FM-123-5)	BMS5-129	2	2C	Grade 10	.060lb/ft <sup>2</sup> (0.293kg/m <sup>2</sup> )	36in x 55yds (91.44cm x 50.29m)	250°F (121°C)
HCS2404-050	Cytec (1515-4M)	BMS5-154	2 & 3	1 & 2	Grade 5	.050lb/ft <sup>2</sup> (0.244kg/m <sup>2</sup> )	36in x 55yds (91.44cm x 50.29m)	350°F (177°C)
HCS2404-100	3M (AF131-2)	BMS8-145	1	N/A	N/A	.075lb/ft <sup>2</sup> (0.366kg/m <sup>2</sup> )	40in x 36yds (101.6cm x 32.9m)	350°F (177°C)
HCS2404-190	3M (AF163-2OST)	BMS5-101	2	N/A	Grade 5	.030lb/ft <sup>2</sup> (5.5mm)	36in x 50yds (91.44cm x 50.29m)	250°F (121°C)
HCS2404-070	3M (AF163-2K)	BMS5-101	2	N/A	Grade 15	.085lb/ft <sup>2</sup> (0.415kg/m <sup>2</sup> )	36in x 50yds (91.44cm x 45.72m)	250°F (121°C)
HCS2404-186	3M (AF163-2OST)	BMS5-101	2	N/A	Grade 10	.060lb/ft <sup>2</sup> (0.293kg/m <sup>2</sup> )	36in x 50yds (91.44cm x 45.72m)	250°F (121°C)
		BMS5-129	4	2D	Grade 10	.060lb/ft <sup>2</sup> (0.293kg/m <sup>2</sup> )		250°F (121°C)
HCS2404-207	3M (AF 30)	BMS5-42	2	N/A	Grade A	.050lb/ft <sup>2</sup> (0.244kg/m <sup>2</sup> )	20in x 72yds (50.8cm x 65.83m)	250/450°F (121/232°C)
HCS2404-208	3M (AF191K)	N/A	N/A	N/A	N/A	.080lb/ft <sup>2</sup> (0.391kg/m <sup>2</sup> )	36in x 50yds (91.44cm x 45.72m)	350°F (177°C)
HCS2404-218	3M (AF 3109-2U)	N/A	N/A	N/A	N/A	.035lb/ft <sup>2</sup> (0.171kg/m <sup>2</sup> )	48in x 25yds (121.92cm x 22.86m)	250/350°F (121/177°C)
HCS2404-219	3M (AF 3109-2K)	N/A	N/A	N/A	N/A	.085lb/ft <sup>2</sup> (0.415kg/m <sup>2</sup> )	48in x 25yds (121.92cm x 22.86m)	250/350°F (121/177°C)
HCS2404-087	3M (AF 163-2K)	N/A	N/A	N/A	N/A	.045lb/ft <sup>2</sup> (0.219kg/m <sup>2</sup> )	36in x 50yds (91.44cm x 45.72m)	250°F (121°C)

## Material Services

In addition to offering a wide range of material types, we provide the service you need that best fits your environment or job. All materials are inspected and arrive with the appropriate quality assurance paperwork.

### AIRCRAFT ON GROUND (AOG) PRIORITY DELIVERY\*

If a situation arises where an aircraft is grounded for repair, our AOG priority service allows materials to ship the same day at the quantity you need to meet the repair demands. \*AOG orders must be received by 11am (PST) in order to allow sufficient processing time for same-day shipment. International AOG shipments are subject to space availability on the next flight out. Additional fees may apply.

### FULL OR PARTIAL ROLLS\*\*

Frozen repair materials typically have a 6-15 month shelf-life. For many facilities, a full roll of materials would not be used in this time-frame and the excess would have to be thrown away. In addition, purchasing material directly from the manufacturer can take months for delivery with large minimum order requirements. For these reasons, we offer full or partial rolls.

\*\*Five yard minimum order.

### GLOBAL FULFILLMENT

Fulfilling composite materials within the United States doesn't stop there. We can send materials internationally through our Europe and China locations.

### MATERIAL RECERTIFICATION

We offer material certification testing for our Boeing Material Specification (BMS) materials. This testing will often allow material to be recertified for a time equal to the original shelf life. Tests reports are issued directly to Boeing.

### PREMIUM PACKAGING

To ensure frozen material remains at the manufacturer recommended temperatures and specifications, our custom packaging prevents heat penetration or mishandling damage. This service includes an insulated box with dry ice that holds an inner box where the material is suspended. Trip recorders are added to record material out-time while in transit.

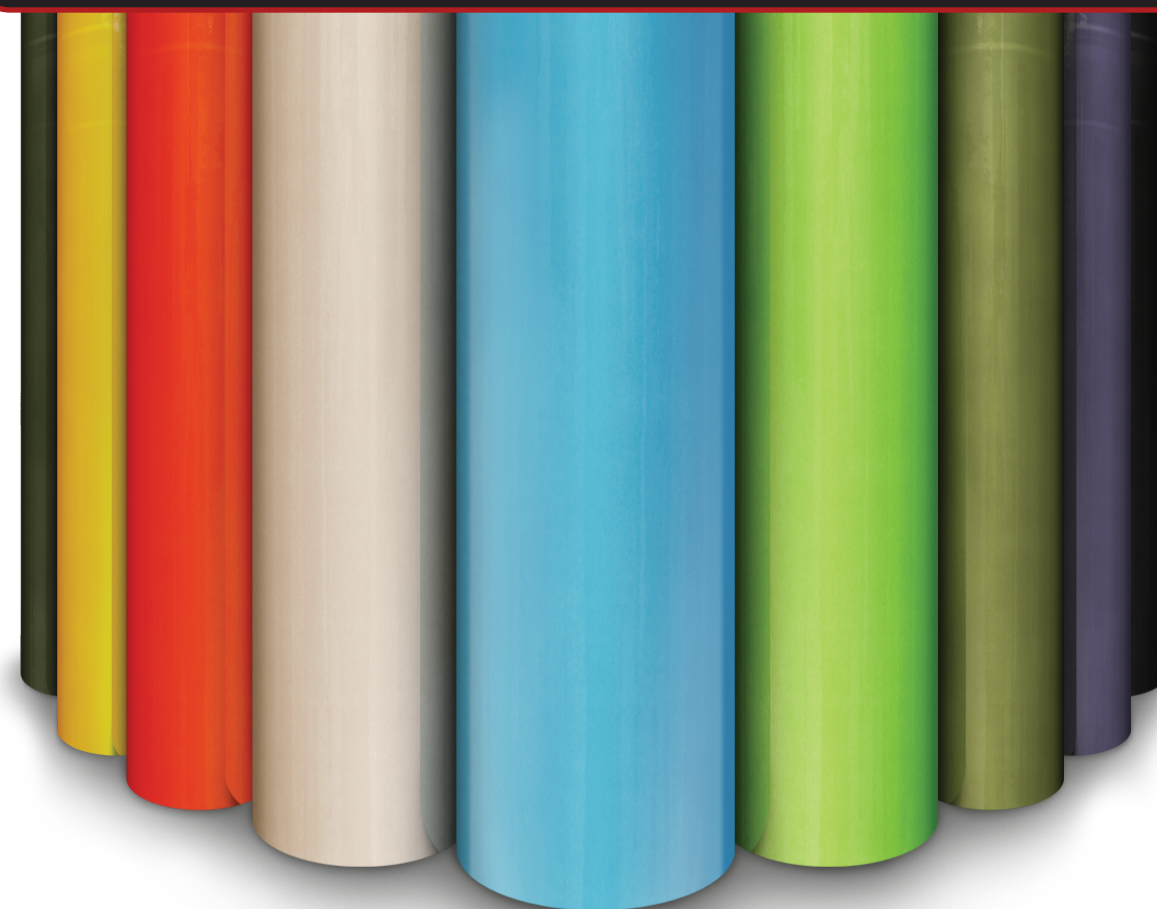
### PRE-ASSEMBLED KITS

We offer kits for vacuum bagging, repair plies, and wet lay-up resins. Our kits are conveniently assembled to easily apply toward temporary or permanent repair of composite structures. Estimated coverage is nine repairs of 10in (25.4cm) in diameter.

# MATERIAL SERVICES

## Composite Materials Fulfillment

### Prepreg, Adhesive Film, and Surface Preparation



Toray Composite Materials America, Inc.



For over 35 years, HEATCON Composite Systems has developed equipment that our customers rely on for composite repairs. We also stock composite materials used for repair applications. Below are the most common composite materials requested by our customers that we have in stock. For additional materials, please reference our full catalog or contact us.

**TYPES OF COMPOSITE MATERIAL WE OFFER:**

- Adhesives
- Resin Kits
- Surface Pre-Treatment
- Prepreg
- Process Materials
- Primers
- Pre-formed Core
- Dry Fabric
- Fillers

## Fiberglass and Kevlar™ Prepreg

### Fiberglass

Part Number	Manufacturer (Mfr Part #) <sup>2</sup>	Specification	Type	Class	Grade/Style/Form	Nominal Cured Thickness	Roll Size <sup>1</sup>	Cure Temp
HCS2401-015	HEXCEL (F155-5)	BMS8-79	N/A	III	Style 120	.0047in (0.12mm)	38in x 100yds (96.52cm x 91.44m)	250°F (121°C)
HCS2401-025	HEXCEL (F155-5)	BMS8-79	N/A	III	Style 1581	.0095in (0.2413mm)	38in x 65yds (96.52cm x 59.44m)	250°F (121°C)
HCS2401-035	HEXCEL (F155-5)	BMS8-79	N/A	III	Style 7781	.0095in (0.2413mm)	38in x 65yds (96.52cm x 59.44m)	250°F (121°C)
HCS2401-045	HEXCEL (F161-108)	BMS8-139	N/A	1	Style 120	.0045in (0.1143mm)	38in x 100yds (96.52cm x 91.44m)	350°F (177°C)
HCS2401-055	HEXCEL (F161-108)	BMS8-139	N/A	1	Style 1581	.0095in (0.2413mm)	38in x 60yds (96.52cm x 54.86m)	350°F (177°C)
HCS2401-060	CYTEC (MXB7668/7781)	BMS8-139	N/A	1 & 2	Style 7781	.0095in (0.2413mm)	38in x 60yds (96.52cm x 54.86m)	350°F (177°C)
HCS2401-075	HEXCEL (F161-138)	BMS8-154	III	1	Style 6581	.0084in (0.213mm)	38in x 60yds (96.52cm x 54.86m)	350°F (177°C)
HCS2401-M20	HEXCEL (M20/120)	BMS8-340 & AMS-3970	III	2	Style 120	.0037in (0.094mm)	50in x 100yds (127cm x 59.44m)	250°F (121°C)
HCS2401-076	Toray (FGF108-29M-990)	BMS8-331	42	1	Style 108/ Form 1	.0018in (0.045mm)	39in x 214yds (99.06cm x 195.68m)	350°F (177°C)

### Kevlar™

Part Number*	Manufacturer (Mfr Part #) <sup>2</sup>	Specification	Grade/Style/Form	Nominal Cured Thickness	Roll Size <sup>1</sup>	Cure Temp
HCS2403-015	HEXCEL (F155-71)	BMS8-219	Style 285	.010in (0.254mm)	38in x 65yds (96.52cm x 59.44m)	250°F (121°C)

## Surface Pre-Treatment

Part Number	Manufacturer (Mfr Part #)	Specification	Type	Class	Grade/Rev Style/Form	Unit Size	Storage Temp
HCS2407-320	3M (AC 130-2)	BMS10-128	1	A	Grade A	50ml 2 PART KIT	40-100°F (4-38°C)
		BMS 5-162	N/A	N/A	Form 2S		
HCS2407-321	3M (AC 130-2)	BMS10-128	1	A	Grade A	100ml 2 PART KIT	40-100°F (4-38°C)
		BMS 5-162	N/A	N/A	Form 2S		
HCS2407-322	3M (AC 131 CB)	BMS10-128	1	A	Grade A	50ml 2 PART KIT	Room Temp
		AMS-3175	1	C	Grade I / Rev A		
HCS2407-323	3M (AC 131 CB)	BMS10-128	1	A	Grade A	100ml 2 PART KIT	Room Temp
		AMS-3175	1	C	Grade I / Rev A		
HCS2407-324	3M (AC 770 B-1)	BMS 5-142	2	B-1	Rev G	3.5oz 2 PART KIT	80°F (27°C)

## Carbon Fiber Prepreg

### Carbon Fiber

Part Number	Manufacturer (Mfr Part #) <sup>2</sup>	Specification	Type	Class	Grade/Style/Form	Nominal Cured Thickness	Roll Size <sup>1</sup>	Cure Temp
HCS2402-015	HEXCEL (F155-76)	BMS8-168	II & III	2	Style 3K-70-PW	.0086in (0.2184mm)	42in x 75yds (106.68cm x 68.58m)	250°F (121°C)
HCS2402-025	HEXCEL (F263-8)	BMS8-212	IV	2	Style 3K-70-PW	.0083in (0.2108mm)	42in x 75yds (106.68cm x 68.58m)	350°F (177°C)
HCS2402-035	HEXCEL (F263-7)	BMS8-212	III	2	Style 3K-135-8H	.0141in (0.3581mm)	42in x 75yds (106.68cm x 68.58m)	350°F (177°C)
HCS2402-040	CYTEC (CYCOM 970/PWC T300 3K UT)	BMS8-256	IV	2	Style 3K-70-PW	.0085in (0.2159mm)	42in x 80yds (106.68cm x 73.15m)	350°F (177°C)
HCS2402-050	CYTEC (CYCOM 934/PWC T300 UT)	BMS8-297	IV	2	Style 3K-70-PW	.0083in (0.2108mm)	60in x 65yds (152.4cm x 59.43m)	350°F (177°C)
HCS2402-060	CYTEC (CYCOM 934/PX T300 ST)	BMS8-297-2	IV	2	Style 3K-70-PX	.0083in (0.2108mm)	60in x 65yds (152.4cm x 59.43m)	350°F (177°C)
HCS2402-070	CYTEC (CYCOM 934/8HS T300 ST CCF)	BMS8-297	III	2	Style 3K-135-8H	.0150in (0.3810mm)	60in x 50yds (152.4cm x 45.72m)	350°F (177°C)
HCS2402-M20	HEXCEL (M20/G904)	BMS8-340 & AMS-3970	I	1	Style 3K-70-PW	.0083in (0.211mm)	42in x 50yds (106.68cm x 45.72m)	250°F (121°C)
HCS2402-089	Toray (F6273-30K-965)	BMS8-276	40	2	Style 12K-70-PW/ Form 4	.0084in (0.213mm)	38in x 61yds (96.52cm x 55.77m)	350°F (177°C)
HCS2402-090	Toray (FM6673G-37KT-229)	BMS8-276	40	6	Style 6K-70-PW/ Form 1	.0086in (0.2184mm)	9in x 664yds (22.86cm x 607.16m)	350°F (177°C)
HCS2402-091	Toray (FM6673G-37KT-305)	BMS8-276	40	6	Style 6K-70-PW/ Form 1	.0086in (0.2184mm)	12in x 320yds (30.48cm x 292.61m)	350°F (177°C)
HCS2402-092	Toray (FM6673G-37K-965)	BMS8-276	40	2	Style 6K-70-PW/ Form 1	.0086in (0.2184mm)	38in x 83yds (96.52cm x 75.89m)	350°F (177°C)
HCS2402-093	Toray (FM6673G-37KT-965)	BMS8-276	40	2	Style 6K-70-PW/ Form 1	.0086in (0.2184mm)	38in x 83yds (96.52cm x 75.89m)	350°F (177°C)
HCS2402-094	Toray (FL6676G-37E-965)	BMS8-276	40	5	Style 6K-70-PW-PB4, IWWF/ Form 1	.0089in (0.226mm)	38in x 132yds (96.52cm x 120.70m)	350°F (177°C)
HCS2402-095	Toray (FL9673G-37KT-229)	BMS8-276	40	6	Style 6K-70-PX/ Form 1	.0086in (0.2184mm)	9in x 266yds (22.86cm x 243.23m)	350°F (177°C)
HCS2402-096	Toray (FL9673G-37KT-305)	BMS8-276	40	6	Style 6K-70-PX/ Form 1	.0086in (0.2184mm)	12in x 270yds (30.48cm x 246.88m)	350°F (177°C)
HCS2402-097	Toray (FL9673G-37KT-953)	BMS8-276	40	2A	Style 6K-70-PX/ Form 1	.0086in (0.2184mm)	38in x 159yds (96.52cm x 145.39m)	350°F (177°C)
HCS2402-080	Toray (P2352W-19-152)	BMS8-276	35	11	GR 190/ Form 3	.0075in (0.190mm)	6in x 462yds (15.24cm x 422.45m)	350°F (177°C)
HCS2402-081	Toray (P2352W-19-229)	BMS8-276	35	11	GR 190/ Form 3	.0075in (0.190mm)	9in x 277yds (22.86cm x 253.29m)	350°F (177°C)
HCS2402-082	Toray (P2352W-19-305)	BMS8-276	35	11	GR 190/ Form 3	.0075in (0.190mm)	12in x 280yds (30.48cm x 256.03m)	350°F (177°C)
HCS2402-083	Toray (P2352W-19-610)	BMS8-276	35	10	GR 190/ Form 3	.0075in (0.190mm)	24in x 284yds (60.96cm x 259.69m)	350°F (177°C)
HCS2402-084	Toray (P2352W-19-1540)	BMS8-276	35	10	GR 190/ Form 3	.0075in (0.190mm)	60in x 120yds (152.4cm x 109.73m)	350°F (177°C)

NOTE: All quoted material subject to availability. Call for pricing and delivery. Other specifications available upon request. <sup>1</sup> Roll yardages vary. Five yard minimum order on most materials. <sup>2</sup> Dry Ice and Trip Recorders required per certification.