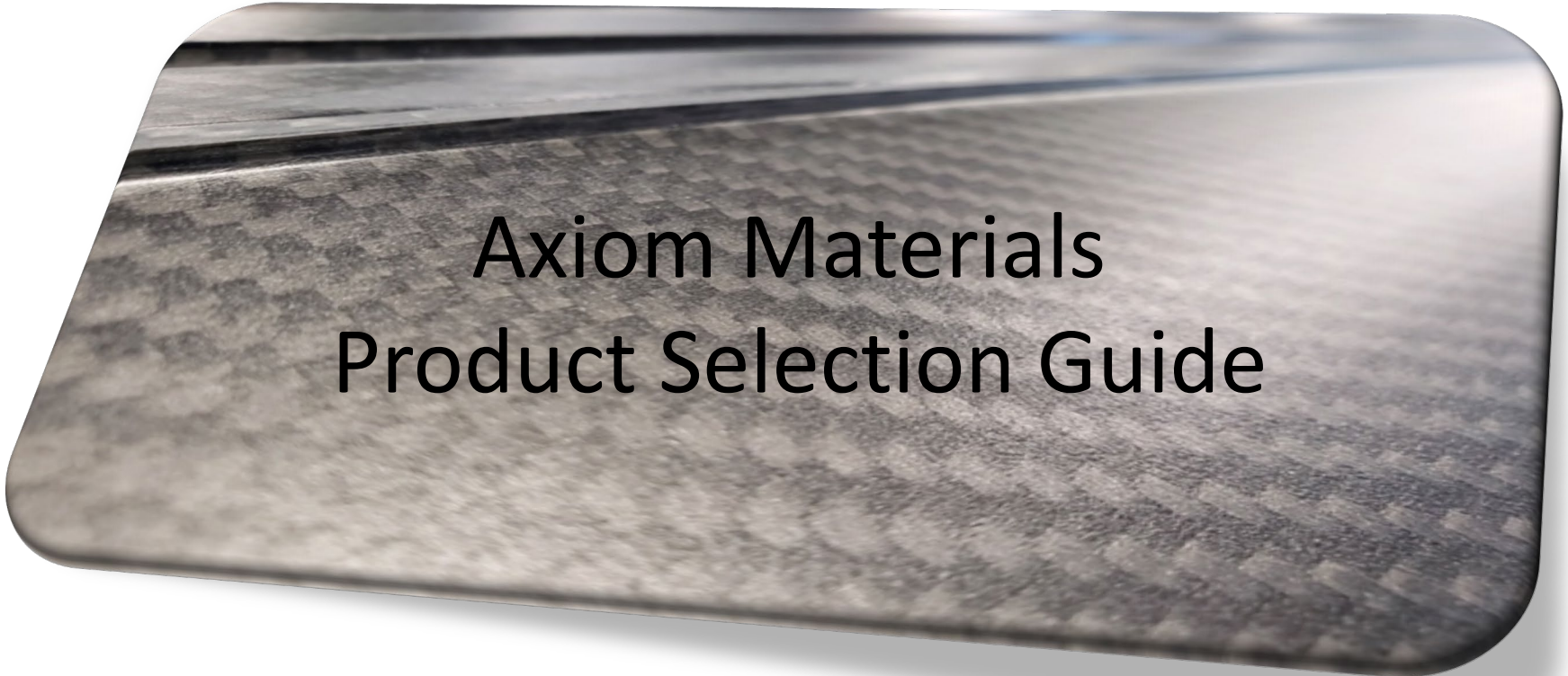




Axiom Materials Product Selection Guide

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Product Naming Key

1) All materials start with 'AX-' to identify them as Axiom products

2) The first number designates the product category:

1XXX: Primers, pastes, and putties (canned goods)

2XXX: Film adhesives

3XXX: Woven preregs, fiberglass or quartz

4XXX: Woven preregs, aramid

5XXX: Woven preregs, carbon

6XXX: Unidirectional preregs

7XXX: CMC prepreg

8XXX: Specialty CMC products

3) The last 3 numbers of the initial sequence of a product identify the resin system. Each resin system has a unique 3 number code ('110' in the above example). It will generally require reference to technical data or sales engineers to determine resin system properties.

4) Fabrics are identified using industry-standard product numbers. Fabric weaves may be determined by referencing a technical fabric handbook.

5) Widths are presented in inches and identified as the third group of numbers in the product sequence.

6) Letters at the end of the product number help determine special product characteristics.

7) Colors are simply identified. Examples: 'Black', 'Yellow', 'Red', for most resin systems, color variations are available.

EXAMPLE:

Sample Product Name: AX-3110-7781-50" Black RC38%

3110 series woven hot melt prepreg made with style 7781 fiberglass (satin weave, 298gsm) at 50" width and having 38% resin content, colored black.

Code	Product Characteristic
C	Carbon Filler Added (e.g. AX-5300C)
CD	Conductive
EL	Extended Life
ET	Extra Tack
F	Filled with Milled Fibers
FR	Flame Retardant
G	Glass Beads Added
HT	High Temperature (Higher Service Temperature Than Standard Product)
L	Long Out Life
LF	Low Flow
LHR	Low Heat Release
LT	Low Temperature Curing

Code	Product Characteristic
M	Mid-Grade Curing (250°F nominal)
N	Nylon Support Carrier
OST	One Side Tack
PG	Press Grade
QC	Quick Curing
S	Speedy Cure (Variable Cure Temperature)
S	Silica Filler Added (e.g. AX-3300S)
SC	Snap Cure
T	Tower Grade
TXT	Textreme®
U	Unsupported
UV	Ultraviolet (UV) Stabilized

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Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-3100	Toughened Low Dielectric Epoxy Fiberglass Prepreg	High transmission applications, radomes	Woven Prepreg, solution coated	Off-white on white	250°F (121°C)	200°F (93°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-3110	Toughened, Flame Retardant Epoxy Fiberglass Prepreg	Flame retardant laminates, honeycomb and foam panels	Woven Prepreg (1 or 2-side coated)	Off-white on white	250°F (121°C)	180°F (82°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):FR and Low Flow versions are available
AX-3112T	Toughened, Flame Retardant Epoxy Fiberglass Prepreg	High toughness, flame retardant laminates, ducting, honeycomb panels, and foam panels	Woven Prepreg, solution coated	Off-white on white	250°F (121°C)	200°F (93°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-3170	Cyanate Ester Fiberglass Prepreg	High service temperature laminates with low dielectric constant & low dissipation factor	Woven Prepreg (1 or 2-side coated)	Clear on white	260°F (127°C)	500°F (260°C)	With full post cure, it's capable of excursions to 600°F (316°C)
AX-3180	Low OSU / FST Epoxy Fiberglass Prepreg	Aircraft interior laminates & panels, A/C ducting	Woven Prepreg (1 or 2-side coated)	Off-White on white	250°F (121°C)	250°F (121°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i): & FST / OSU Snap Cure (SC) available.
AX-3201XL	Toughened Epoxy Fiberglass Laminating Prepreg Extra-long Outlife	High strength laminates requiring good structural properties and high clarity	Woven Prepreg (1 or 2-side coated)	Clear on white	Variable	250°F (121°C)	Flame Retardant (XL/FR) variant available.
AX-3206	Toughened Epoxy Fiberglass Laminating Prepreg	High toughness laminates for prosthetics and race car industry	Woven Prepreg (1 or 2-side coated)	White on white	Variable	250°F (121°C)	More toughened than AX-3201 series.
AX-3208FR/LT	Low Temperature Cure Flame Retardant Fiberglass Prepreg	Aircraft interior rework/repairs	Woven Prepreg (1 or 2-side coated)	Cream on white	160°F (71°C)	190°F (88°C)	Variable cure Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-3210	Vinyl Ester Fiberglass Prepreg	General purpose laminating with excellent strength and resistance to common industrial fluids	Woven Prepreg (1 or 2-side coated)	Off-white on white	275°F (135°C)	300°F (149°C)	Long Out life
AX-3230	Polyester Fiberglass Prepreg	General purpose laminating with excellent strength and flammability resistance.	Woven Prepreg (1 or 2-side coated)	Off-white on white	275°F (135°C)	300°F (149°C)	Long Out Life, Meets MIL-R-7575C and FAR25.853
AX-3430	Biobased Fiberglass Prepreg	Low FST for aircraft interior components	Woven Prepreg, solution coated	Brown on white	275°F (135°C)	250°F (121°C)	Biobased alternative to Phenolic Pre-pregs
AX-3500 / AX-3500LHR	Toughened Phenolic Fiberglass Prepreg	Honeycomb panels for aircraft interior components	Woven Prepreg, solution coated	Amber on white	275°F (135°C)	250°F (121°C)	Press grade and layup grade available.

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Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-3220	High Temperature Epoxy Fiberglass Prepreg	High temperature laminates and high temperature ducting	Woven Prepreg (1 or 2-side coated)	Clear on white	350°F (177°C)	400°F (204°C)	Post cure recommended for peak performance. FR grade available.
AX-3238	High Toughness Structural Epoxy Fiberglass Prepreg, designed specifically for VBO structural applications	Large, Thick, Structural composite components	Woven Prepreg (1 or 2-side coated)	Light amber on white	350°F (177°C)	350°F (177°C)	Extra-Long outlife, VBO capable, excellent mechanical properties.
AX-3280	BMI Fiberglass Prepreg	High temperature laminating and bonding applications	Woven Prepreg (1 or 2-side coated)	amber on white	350°F (177°C)	400°F (204°C)	With full post cure, it's capable of excursions to 450°F (232°C)
AX-3300	High Temperature Phenolic Laminating Fiberglass Prepreg	Ballistic panels, high temperature laminates	Woven Prepreg, solution coated	Amber on white	350°F (177°C)	500°F (260°C)	Resin meets MIL-R-9299C
AX-3605	Modified Silica S-glass Prepreg	High service temp laminates for insulation & aircraft structures, Thermal protection for aircraft and batteries	Woven Prepreg, solution coated	White on white	350°F (177°C)	950°F (510°C)	Free standing post cure at desired service temperature recommended.
AX-3611	Condensation Polyimide Fiberglass Prepreg	High temp laminating applications including insulated panels	Woven Prepreg, solution coated	Amber on white	350°F (177°C)	640°F (338°C)	

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Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-4110	Toughened, Flame Retardant Epoxy Aramid Prepreg	Flame retardant laminates, honeycomb panels, and foam panels	Woven Prepreg (1 or 2-side coated)	Off-white on yellow	250°F (121°C)	180°F (82°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-4112T	High Performance, Toughened Epoxy Aramid Prepreg	High toughness, FR laminates, ducting, honeycomb panels, and foam panels	Woven Prepreg, solution coated	Off-white on yellow	250°F (121°C)	200°F (93°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-4151	Modified PVB Phenolic Aramid Prepreg	High strength and impact-resistant bonding and laminating typically for ballistic applications	Woven Prepreg (1 or 2-side coated)	Off-white on yellow	275°F (135°C)	180°F (82°C)	Resin meets MIL-DTL-62474F
AX-4180	Low OSU / FST Epoxy Aramid Prepreg	Aircraft interior laminates & panels, A/C ducting	Woven Prepreg (1 or 2-side coated)	Off-White on yellow	250°F (121°C)	250°F (121°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i): & FST / OSU requirements
AX-4201XL	Toughened Epoxy Aramid Laminating Prepreg Extra-long Outlife	High strength laminates requiring good structural properties and high clarity	Woven Prepreg (1 or 2-side coated)	Clear on yellow	Variable	250°F (121°C)	Flame Retardant (XL/FR) variant available
AX-4220	High Temperature Epoxy Laminating Aramid Prepreg	High temperature laminates and high temperature ducting	Woven Prepreg (1 or 2-side coated)	Clear on yellow	350°F (177°C)	400°F (204°C)	Post cure recommended for peak performance. FR grade available.
AX-4238	High Toughness Structural Epoxy Aramid Prepreg, designed specifically for VBO structural applications	Large, Thick, Structural Composite components	Woven Prepreg (1 or 2-side coated)	Cream on yellow	350°F (177°C)	350°F (177°C)	Extra-Long outlife, VBO capable, excellent mechanical properties.
AX-4300	High Temperature Phenolic Laminating Aramid Prepreg	Ballistic panels, high temperature laminates	Woven Prepreg, solution coated	Amber on yellow	300°F (149°C)	500°F (260°C)	Resin meets MIL-R-9299C
AX-4500/ AX-4500LHR	Toughened Phenolic Aramid Prepreg	Honeycomb panels for aircraft interior components	Woven Prepreg, solution coated	Amber on yellow	275°F (135°C)	250°F (121°C)	Press grade and layup grade available

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Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-5112T	High Toughness, Flame Retardant Epoxy Carbon Prepreg	High toughness, flame retardant laminates, ducting, & honeycomb panels	Woven Prepreg, solution coated	Off-white on black	250°F (121°C)	200°F (93°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-5170	Cyanate Ester Carbon Prepreg	High service temperature laminates	Woven Prepreg (1 or 2-side coated)	Clear on black	260°F (127°C)	500°F (260°C)	With full post cure, it's capable of excursions to 600°F (316°C)
AX-5180	Low OSU / FST Epoxy Carbon Prepreg	Aircraft interior laminates & panels, A/C ducting	Woven Prepreg (1 or 2-side coated)	Off-White on black	250°F (121°C)	250°F (121°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i): & FST / OSU requirements. Color variations available.
AX-5201XL	Toughened Epoxy Carbon Laminating Prepreg Extra-long Outlife	High strength laminates requiring good structural properties and high clarity	Woven Prepreg (1 or 2-side coated)	Clear or black on black	Variable	250°F (121°C)	Flame Retardant (XL/FR) variant available
AX-5202HT	High Temp Cosmetic Epoxy Carbon Prepreg	Parts requiring high thermal resistance	Woven Prepreg (1 or 2-side coated)	Clear on black	Variable	425°F (218°C)	Used extensively in auto sport applications
AX-5205	Epoxy Carbon Prepreg for High Quality Surface	Low temp or standard temp option for laminates requiring a high quality surface and cosmetic appearance	Woven Prepreg (1 or 2-side coated)	Clear or black on black	Variable	250°F (121°C)	Low temp cure grade available (S)
AX-5206	Toughened Epoxy Carbon Laminating Prepreg	High toughness laminates for prosthetics and race car industry	Woven Prepreg (1 or 2-side coated)	White or black on black	Variable	250°F (121°C)	More toughened than AX-5201 series
AX-5500 / AX-5500LHR	Toughened Phenolic Carbon Prepreg	Press cured aircraft interior sandwich panels	Woven Prepreg, solution coated	Amber on black	275°F (135°C)	250°F (121°C)	Press grade and layup grade available.

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Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-5220	High Temperature Epoxy Laminating Carbon Prepreg	High temperature laminates, high temperature ducting	Woven Prepreg (1 or 2-side coated)	Clear on Black	350°F (177°C)	400°F (204°C)	Post cure recommended for peak performance. FR grade available.
AX-5238	High Toughness Structural Epoxy Carbon Prepreg, designed specifically for VBO structural applications	Large, Thick, Structural composite components	Woven Prepreg (1 or 2-side coated)	Cream on Black	350°F (177°C)	350°F (177°C)	Extra-Long outlife, VBO capable, excellent mechanical properties.
AX-5280	BMI Woven Carbon Prepreg	High temperature laminating and bonding applications	Woven Prepreg (1 or 2-side coated)	Light Amber on Black	350°F (177°C)	400°F (204°C)	With full post cure, it's capable of excursions to 450°F (232°C)
AX-5300	High Temperature Phenolic Carbon Prepreg	Carbon-carbon composites, high temperature laminates	Woven Prepreg	Amber on Black	350°F (177°C)	500°F (260°C)	Resin meets Mil-R-9299C
AX-5605	Modified Silica Carbon Prepreg	High service temp laminates for insulation & aircraft structures, Thermal protection for aircraft and batteries and racing	Woven Prepreg	White or black on Black	350°F (177°C)	900°F (482°C)	Free standing post cure at desired service temperature recommended.
AX-5611	Condensation Polyimide Carbon Prepreg	High temp laminating applications including insulated panels	Woven Prepreg	Amber on Black	350°F (177°C)	640°F (338°C)	
AX-5650	Carbon Reinforced Silicon Carbide Prepreg	High service temperature components for aerospace & defense applications	Woven Prepreg	Dark Grey on Black	Inquire for Processing Information	Inquire for Processing Information	Liquid Phase Sintering Technology based on NITE

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Product	Description	Applications	Form	Matrix Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-6111	General Purpose Flame Retardant Epoxy Unidirectional Prepreg	Aircraft flooring, high-rise flooring, cargo liners, high impact surfaces, UAVs, sporting goods	UD Prepreg (1 or 2-side coated)	Off white	250°F (121°C)	200°F (93°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-6170	Cyanate Ester Carbon Prepreg	High service temperature laminates	UD Prepreg (1 or 2-side coated)	Clear	260°F (127°C)	500°F (260°C)	With full post cure, it's capable of excursions to 600°F (316°C)
AX-6180	Low FST/OSU Epoxy Unidirectional Prepreg	Aircraft interior components, seatbacks, doublers	UD Prepreg (1 or 2-side coated)	White	250°F (121°C)	250°F (121°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i): & FST / OSU requirements
AX-6201XL	Toughened Epoxy Unidirectional Prepreg Extra-long Outlife	High strength laminates requiring good structural properties and/or high clarity, marine applications	UD Prepreg (1 or 2-side coated)	Clear or light Black	Variable	250°F (121°C)	Flame Retardant (XL/FR) variant available.
AX-6206	Toughened Epoxy Carbon Laminating Prepreg	High toughness laminates for prosthetics and race car industry	UD Prepreg (1 or 2-side coated)	White or Black	Variable	250°F (121°C)	More toughened than AX-5201 series
AX-6220	High Temperature Epoxy Laminating Carbon Prepreg	High temperature laminates and high temperature ducting	UD Prepreg (1 or 2-side coated)	Clear	350°F (177°C)	400°F (204°C)	Post cure recommended for peak performance. FR grade available.
AX-6238	Structural Epoxy Unidirectional Prepreg, designed specifically for VBO structural applications	Structural composite components	UD Prepreg (1 or 2-side coated)	Cream	300°F (149°C)	350°F (177°C)	Extra-Long outlife, VBO capable, excellent mechanical properties.
AX-6280	BMI Carbon Unidirectional Prepreg	High temperature laminating and bonding applications	UD Prepreg (1 or 2-side coated)	Amber	350°F (177°C)	400°F (204°C)	With full post cure, it's capable of excursions to 450°F (232°C)

Note: All unidirectional prepregs are available in E-glass (E), S2 Glass (S), Carbon (C), Aramid (A)

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