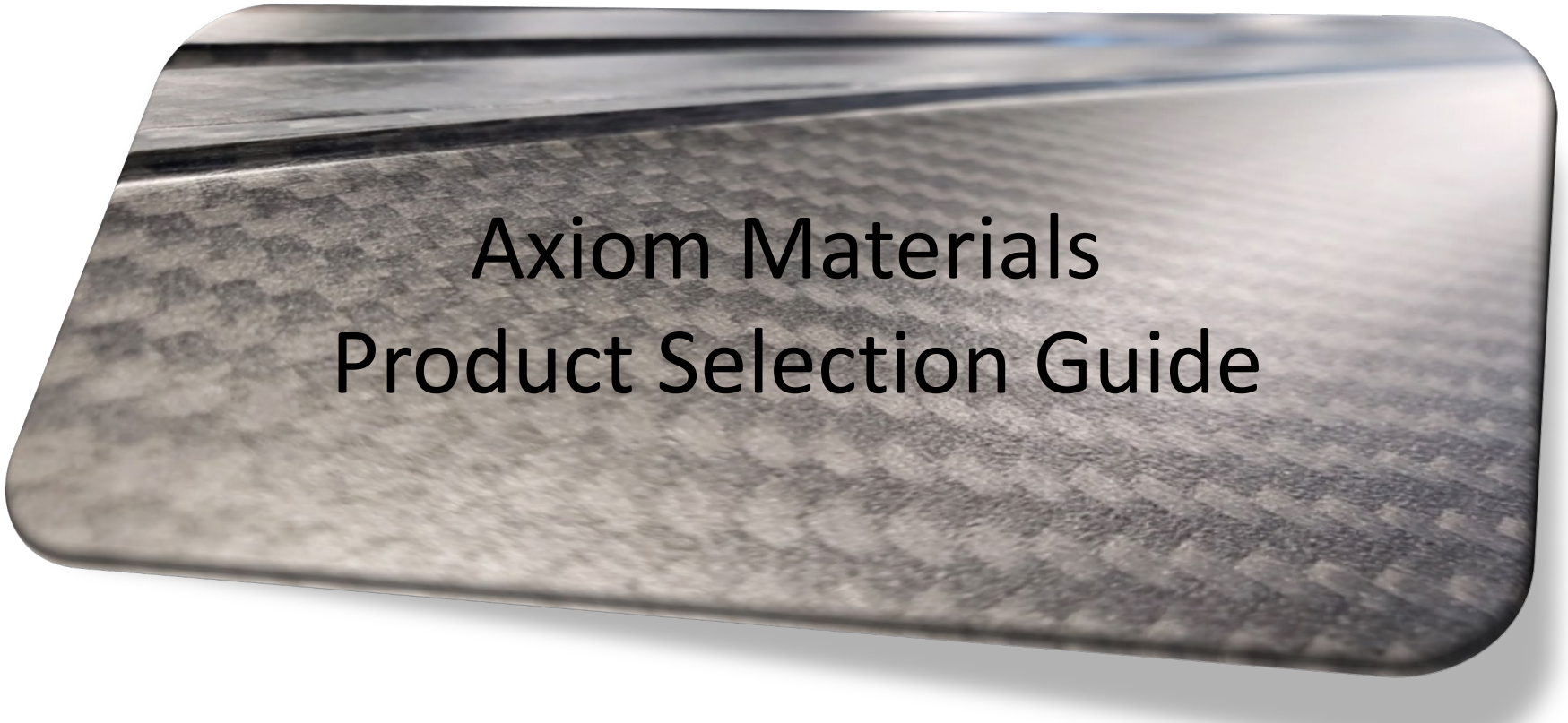
AXIOM MATERIALS



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 prepregs, fiberglass or quartz
4XXX: Woven prepregs, aramid
5XXX: Woven prepregs, carbon
6XXX: Unidirectional prepregs
7XXX: CMC prepreg
8XXX: Specialty CMC products

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

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

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.

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

Product Selection Guide – 250°F FILM ADHESIVES

Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-2114	Toughened Epoxy Film Adhesive	High performance applications for metallic and composites substrates	Adhesive film, supported	Off-white	250°F (121°C)	200°F (93°C)	Also available unsupported. Flame retardant and Low Heat Release versions are available
AX-2115	Toughened Epoxy Film Adhesive	Bonding of metallic, composite and thermoplastic substrates	Adhesive film, supported	Red	250°F (121°C)	200°F (93°C)	Also available unsupported. Color variations available.
AX-2116	Highest Performance, enhanced peel, Toughened Epoxy Film Adhesive	Aerospace grade, high peel bonding applications for metallic and composites substrates	Adhesive film, supported	Blue	250°F (121°C)	250°F (121°C)	Also available unsupported and a PFAS free (F) version.
AX-2121	Variable Temp. Cure Epoxy Film Adhesive	Low temperature curing for prototype development	Adhesive film, supported	Cream	160°F (71°C)	250°F (121°C)	Also available unsupported Snap cure (SC) and Low Temp (LT), Extended Out life (EL) versions are available
AX-2150	Light weight phenolic film adhesive	Promotes better adhesion for phenolic panel and parts	Adhesive film, unsupported	Light Blue	225°F (107°C) to 350°F (177°C)	250°F (121°C) using a 250°F Cure	
AX-2151	PVB Phenolic Ballistic Film Adhesive	Bonding promotion and high energy load transfer between fabrics for ballistic applications	Adhesive film, unsupported	Green	250°F (121°C)	200°F (93°C)	
AX-2190M/FR	Foaming Epoxy Core Splice Adhesive	Core splicing and edge-bonding of honeycomb cores and paneling.	Medium weight adhesive film	Cream	250°F (121°C)	300°F (149°C)	Available in a variety of forms. Flame retardant version is available.
AX-2140	Epoxy Surfacing & Finishing Film Adhesive	Surface finishing of composite parts. Co-cure with prepreg to reduce pitting and smooth part surfaces. Eliminates fill, fair, and repair	Adhesive film, supported	Grey	250°F (121°C) or 350°F (177°C)	250°F (121°C)	May be consolidated with lightning strike materials. Low temperature (LT) cure available.
AX-2215	Epoxy Surfacing Film	Designed to meet challenging demands for Class-A finishes for composite structures	Supported	Black	248°F (120°C) or 356°F (180°C)	334°F (168°C) using a 356°F Cure	

Product Selection Guide – 350°F FILM ADHESIVES

Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-2130	High Temperature Epoxy Film Adhesive	High temperature metal / composite bonding, honeycomb bonding	Adhesive film, supported	Blue	Variable, 350°F (177°C)	330°F (166°C)	Available unsupported
AX-2131	High Temperature Epoxy Film Adhesive	High temperature metal / composite bonding, honeycomb bonding	Adhesive film, supported	Grey	350°F (177°C)	400°F (204°C)	Metal filled
AX-2135	High Temperature Epoxy Film Adhesive	High temperature metal / composite bonding, honeycomb bonding	Adhesive film, supported	Blue	350°F (177°C)	305°F (152°C)	Available unsupported
AX-2138	High Temperature, Toughened Epoxy Film Adhesive	High temperature metal / metal or composite bonding, honeycomb bonding / High peel strength applications	Adhesive film, supported	Green	285°F (135°C) or 350°F (177°C)	350°F (177°C)	Barrier film available for prepreg resin containment in sandwich structures Available unsupported
AX-2171	Cyanate Ester Film Adhesive	High temperature bonding of structural composites while offering good mechanical performance at operating temperatures up to 500°F (260°C).	Adhesive film, unsupported and supported	Off -white	250°F (121°C) to 350°F (177°C)	500°F (260°C)	With full post cure, it's capable of excursions to 600°F (316°C)