



Your Partner for Advanced Composites

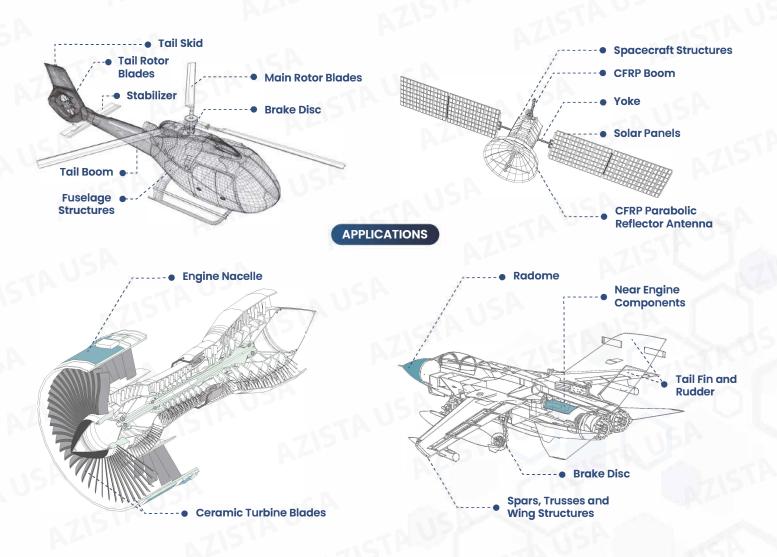
- Design and Manufacture of Polymer Matrix Composites
- Intermediates Hot Melt Prepregs and Towpregs
- Carbon Carbon and Ceramic Matrix
 Composites



Code	Resin	Features	Cure Cycle	Tg	Applications
AER 101P	Ероху	Medium tack and excellent drape characteristics Controlled melt viscosity	1°C (33.8°F)/min ramp rate 1 hr hold at 130°C (266°F) 3 hr hold at 170°C (338°F)	175°C (347°F)	Structural components Automotive components Sports goods
AER 102P	Ероху	Low cost high performance prepregVersatile processability	2°C (35.6°F)/min ramp rate 1 hr hold at 180°C (356°F)	188°C (370.4°F)	Automotive components Sports goods
AER 103T	Ероху	 Low-temperature cure Outstanding environmental resistance Good hot/wet mechanical performance 	2°C (35.6°F)/min ramp rate 1 hr hold at 130°C (266°F)	160°C (320°F)	Rocket motor casing Type III and Type IV composite pressure vessel Cylindrical structures
AER 103P	Ероху	Low-temperature cure Outstanding environmental resistance Good hot/wet mechanical performance	2°C (35.6°F)/min ramp rate 1 hr hold at 130°C (266°F)	159°C (318.2°F)	Primary aircraft structures Helicopter blades
AER 104P	Ероху	Low outgassing properties Low CTE and CME High-temperature resistant primary aircraft structures Controlled melt viscosity Medium tack	2°C (35.6°F)/min ramp rate 1 hr hold at 180°C (356°F) 1 hr hold at 195°C (383°F)	212°C (413.6°F)	Primary aircraft structures Spacecraft structures (CFRP skin for sandwich panels, opto-mechanical structures, trusses, etc.)
AER 105P	Ероху	Toughened resin Low-temperature cure Versatile matrix system	2°C (35.6°F)/min ramp rate 1 hr hold at 130°C (266°F)	136°C (276.8°F)	Automotive components Primary aircraft structures
AER 106P	Ероху	Low-temperature cure system Excellent mechanical and dielectric properties	2°C (35.6°F)/min ramp rate 1 hr hold at 120°C (248°F)	112°C (233.6°F)	• Radomes
AZCE501P	Cyanate Ester	 Excellent RF properties Low moisture absorption Low CTE, CME and outgassing properties 	2°C (35.6°F)/min ramp rate 2 hr hold at 150°C (302°F) 4 hr hold at 200°C (392°F)	195°C (383°F)	Radomes Opto-mechanical structures Spacecraft structures



Code	Resin	Features	Cure Cycle	Tg	Applications
APR 201P	Phenolic	 Solvent Free Hotmelt Phenolic Prepregs Environment friendly Versatile & process friendly 	2°C (35.6°F)/min ramp rate 2 hr hold at 100°C (212°F) 2 hr hold at 180°C (356°F)	170°C (338°F)	Aircraft interiors Fire resistant structures for railways Structural components
AZKLM0301NX	Phthalonitrile	 High Tg resin Low dielectric constant & loss Ultra High Service temperatures 72% char yield RTM, Vacuum Bagging and Autoclave compatible 	1°C (33.8°F)/min ramp rate 2 hr hold at 180°C (356°F) 6 hr hold at 200°C (392°F) Additional post-cure cycle*	435°C (815°F)	Jet engine components Radomes Thermal protection systems High temperature leading edges and radomes Precursor for CC composites
AZKLM0402	Phthalonitrile	High Tg hotmelt prepregs Compatible with advanced manufacturing methods	1 hr hold at 100°C (212°F), 3°C (37.4°F)/min ramp rate 4 hr hold at 200°C (392°F), 1°C (33.8°F)/min ramp rate	_	Near engine components High temperature leading edges Maritime structures





Sandwich Structures

Features

- · High Tg, porous rigid core material
- Easily machinable
- Good dielectric properties at elevated temperatures
- · Ablative sandwich structures



Type IV Composite Overwrapped Pressure Vessel for Hydrogen & CNG Storage

Features

- · Hot-melt towpreg winding
- Clean and environment friendly process



- Working pressures 350 & 700 bar
- Durable, light weight and corrosion resistant
- Design and manufacturing for automobile applications

CC & C-SiC Brake Disc (For Aircraft & Automobile Applications)

Features

- Novel carbon fibre preform
- Manufactured by state-of-the-art advanced thermal graded CVI process



 2-3X faster production and better performance through CVI matrix

Near Net Shaped CC/CMC Blocks

Features

- Machinable blocks with TPS coating
- Near-net shaped CC/CMC blocks through PIP, CVI processes with 2D,2.5D,3D preform architecture
- Rapid turnaround time to manufacture critical components that can withstand 1600°C (2912°F) for long duration & 2000°C (3632°F) for short duration

Nozzle and Throat Sections for Solid Rocket Motor

Features

 Self-standing Polymer Matrix Composite Nozzle and C-SiC Throat



- Superior performance with 20-30% weight savings
- High production throughput



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