PARK ELECTROCHEMICAL CORP.

ADVANCED COMPOSITE MATERIALS

Selector Guide

Park Electrochemical Corp. is a global advanced materials company which develops and manufactures high-technology digital and RF/microwave printed circuit materials principally for the telecommunications and internet infrastructure and high-end computing markets and advanced composite materials, parts and assemblies for the aerospace markets. Park's core capabilities are in the areas of polymer chemistry formulation and coating technology. The Company's manufacturing facilities are located in Singapore, France, Kansas, Arizona and California. The Company also maintains R&D facilities in Arizona, Kansas and Singapore.

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Park's Advanced Composite Materials

Material	APPLICATIONS					
	Aircraft Primary & Secondary Structures	Interiors	High Temperature	Radomes & Antennas	Specialty (High-End Automotive, Motorsport, Marine, Wind Energy)	Ablatives
Aeroglide™ Surfacing Film	X			X	X	
CoreFix®	X					
Easycure E-710™					X	
E-746	X		X		X	
E-752-LT	X					
E-752	X					
E-761		X		X	X	
E-765	X				X	
E-766B		X				
F-502			X			X
F-529		X				
F-554			X			X
F-555			X			X
F-557			X			X
F-562			X			X
P-600	X			X	X	
P-601				X	X	
P-650M				X	X	
P-650R	X			X	X	
P-670F		X			X	
P-670I		X			X	
PeelCote®	X				X	
V-303			X			
V-376			X	X		

Materials and Features	Reinforcements --- Product Forms	Cure Temp °C / °F	Dry Tg* °C / °F	Autoclave Cure	Vacuum Cure	Press Molding
Aeroglide™ Surfacing Film An epoxy-based composite surfacing film designed to improve the surface finish of aircraft composite parts and reduce or eliminate secondary surface finishing operations prior to painting.	Fiberglass	121 / 250 177 / 350		X	X	X
CoreFix® Disposable prepreg used for stabilizing honeycomb materials during handling and machining. Designed to be easily removed from the core without tearing or distorting the honeycomb.						
Easycure E-710™ A low-temperature cure epoxy prepreg for use in the high-end automotive, motorsport, wind energy and aerospace industries. Good for low-temperature tooling.	Fiberglass, Carbon, Aramid --- Fabric	71 / 160 121 / 250	130 / 260	X	X	X
E-746 350°F (177°C) Cure Epoxy Prepreg Modified epoxy resin system. Excellent mechanical properties after long-term high temperature exposure. Good RF properties. Meets requirement of Mil-R-9300B Type II. Service temperatures up to 500°F after post-cure.	Fiberglass, Quartz (including Astroquartz) --- Fabric	177 / 350	205 / 401	X		

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Materials and Features	Reinforcements --- Product Forms	Cure Temp °C / °F	Dry Tg* °C / °F	Autoclave Cure	Vacuum Cure	Press Molding
E-752-LT 350°F (177°C) Cure Toughened Epoxy Prepreg Medium-toughened, 350°F (177°C) cure epoxy resin system with 315°F (157°C) wet Tg for primary and secondary structural applications. E-752-LT is formulated for efficient processing in high volume Automated Fiber Placement (AFP) applications manufacturing.	Fiberglass, Carbon --- Fabric, Uni-tape	177 / 350	220 / 428	X	X	X
E-752 350°F (177°C) Cure Epoxy Prepreg Medium-toughened, self-adhesive, 350°F cure system designed for aerospace primary and secondary structural applications. High service temperature and moisture resistance. Wet service temperature up to 250°F.	Fiberglass, Carbon --- Fabric, Uni-tape	177 / 350	190 / 375	X	X	X
E-761 250°F (121°C) Cure Epoxy Prepreg Self adhesive prepreg for sandwich applications. Flame retardant (per FAR25.853) with good RF properties. Wide process latitude. Wet service temperature up to 160°F.	Fiberglass, Carbon, Aramid (including Kevlar®), Spectra®, Quartz (including Astroquartz) --- Fabric	121 / 250	122 / 252	X	X	X
E-765 250°F (121°C) Cure Epoxy Prepreg Medium-toughened, self-adhesive epoxy for aerospace structures. Wide processing window. Wet service temperature up to 180°F.	Fiberglass, Carbon, Spectra®, Quartz (including Astroquartz) --- Fabric, Uni-tape	127-138 260-280	194 / 381	X	X	X
E-766B 250°F (121°C) Cure Epoxy Prepreg Medium-toughened, low-tack epoxy. Self-adhesive prepreg for sandwich applications. Flame retardant. Controlled flow properties. Service temperature up to 160°F.	Fiberglass, Carbon, Aramid (including Kevlar®) --- Fabric	127-138 260-280	93 / 200	X	X	X
F-502 Phenolic Ablative Prepreg Combines high-strength and ablative properties for demanding applications. Low thermal expansion.	Fiberglass, Carbon, Quartz (including Astroquartz) --- Fabric, CMC / Biased Tape	121-177 250-350	260 / 500	X		X
F-529 Halogen-Free Phenolic Prepreg Halogen-free prepreg for interior applications. Excellent FST and heat-release properties. White appearance after cure. Self-adhesive for sandwich structures.	Fiberglass, Carbon --- Fabric	121-149 250-300	120 / 248	X	X	X
F-554 Phenolic / Silica Ablative Prepreg High purity silica filled resin system coated on commercial or aerospace grade silica fabric. Combines higher strength and ablative properties for demanding applications. Low thermal expansion.	Silica --- Fabric, CMC / Biased Tape	121-177 250-350	260 / 500	X		X
F-555 Phenolic / Carbon Ablative Prepreg Carbon-loaded resin system. Combines high-strength and ablative properties for demanding applications. Low thermal expansion. Also available in a low density version.	Carbon, Carbonized Rayon (including C2 and NARC) --- Fabric, CMC / Biased Tape	121-177 250-350	260 / 500	X		X
F-557 Phenolic / Silica Ablative Prepreg High purity Silica filled resin system coated on commercial or aerospace grade silica fabric. Combines higher strength and ablative properties for demanding applications. Low thermal expansion.	Silica --- Fabric, CMC / Biased Tape	121-177 250-350	260 / 500	X		X
F-562 Modified Phenolic Ablative Prepreg Elastomer modified resin system coated on silica or carbonized rayon.	Silica, Carbonized Rayon (including C2 and NARC) --- Fabric	121-177 250-350	260 / 500	X		X
P-600 Polyester Prepreg General purpose polyester resin system. Non-styrenated / Low VOC. Good alternative to wet-layup processing.	Fiberglass --- Fabric	82-121 180-250	71 / 160	X	X	X
P-601 Polyester Prepreg Polyester resin system designed for Woven roving applications. Non-styrenated / Low VOC. Good alternative to wet-layup processing.	Fiberglass (18 oz woven roving) --- Fabric	82-121 180-250	71 / 160	X	X	X

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Materials and Features	Reinforcements --- Product Forms	Cure Temp °C / °F	Dry Tg* °C / °F	Autoclave Cure	Vacuum Cure	Press Molding
P-650M Polyester Prepreg Modified diallyphthallate resin system. Excellent wet electrical properties. Non-styrenated / Low VOC.	Fiberglass --- Fabric	121-149 250-300	121 / 250	X	X	X
P-650R Polyester Prepreg Designed for optical clarity. Good mechanical and electrical properties. Non-styrenated / Low VOC.	Fiberglass --- Fabric	121-149 250-300	121 / 250	X	X	X
P-670F Polyester Prepreg High temperature service. Flame retardant. Excellent electrical and mechanical properties. Non-styrenated / Low VOC.	Fiberglass --- Fabric	121-149 250-300	121 / 250	X	X	X
P-670I Polyester Prepreg High temperature service. Flame retardant. Excellent electrical and mechanical properties. Non-styrenated / Low VOC Antimony free.	Fiberglass --- Fabric	121-149 250-300	121 / 250	X	X	X
V-303 Non-MDA Polyimide Prepreg Non-MDA condensation polyimide resin system. Very high service temperature.	Fiberglass, Quartz (including Astroquartz), Carbon --- Fabric	177 / 350 plus 550 FPC	316 / 600	X		X
V-376 Cyanate Ester Excellent RF properties (low loss). Low moisture absorption. Self adhesive prepreg for sandwich applications. Ideal alternative to BMI and polyimide systems.	Fiberglass, Quartz (including Astroquartz) --- Fabric	177 / 350	204 / 400	X		X

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