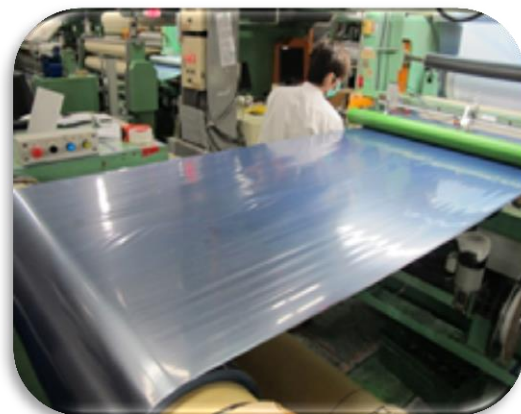
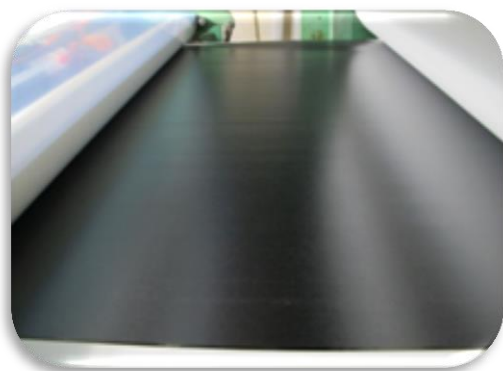
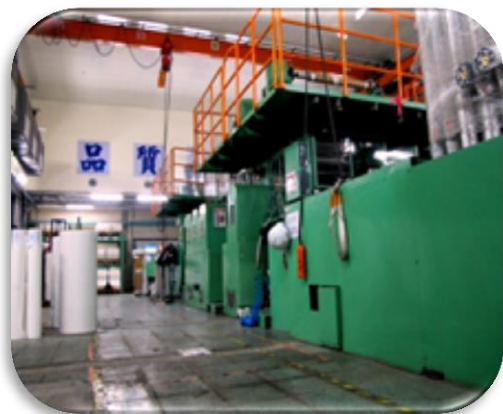




About Advanced Group PPG Division

Advanced International Multitech Co., Ltd, Prepreg Division, which has been established over 25 years, is a leading Taiwanese manufacturer of high performance carbon fiber reinforced plastic (CFRP) and glass fiber reinforced plastic (GFRP) hot-melt epoxy resin pre-impregnated materials (prepregs) and sheet molding compound (SMC). Advanced Group provides customized and green composite materials, in terms of a wide range of combination of FAW / RC / Fiber Type / Resin System, to assist customer in application design and manufacture of final product.





Our product range includes:

- Fiber: glass fiber / carbon fiber(24T / 30T / 40T / 46T) / basalt fiber / hybrid fiber / woven fabric (3K / 6K)
- Epoxy resin system: CNT added / toughened / light weight & high modulus / flame retardant / high Tg / low temperature cure / fast cure / good surface finish.
- SMC: Sheet Molding Sheet for shortening lay-up process in production.
- Our prepreg supplied to markets and industries: sports & leisure goods, automotive, industrial, aerospace, marine, and electronic component manufacturing. Based on extensive and long term experience in sports & leisure goods OEM industry (tube, bike component, shaft, archery arrow etc), we are not only aiming to be top composite material supplier in this market, but also striving hard to extend share in other markets.

Advanced Group PPG Division production facilities have been built and operated to not only complying common with quality standards, but also being 1st prepreg manufacturer in the world granted carbon footprint certification as shown below.

Certifications: AS9001 / ISO9100 / ISO14001 / OHSAS18001 / PAS2050:2008 / Reach / RoHS





	Matrix	Features	Tg	Recommended Curing cycle
Good Surface Finish	N3 Series : Modified epoxy for good surface finish	<ul style="list-style-type: none"> ■ Aesthetically excellent gloss surface finish ■ Moderate tack ■ Good handling properties 	140 °C (284 °F)	30 min at 150 °C (302 °F)
	NX Series : Modified epoxy with excellent resin flow for rigid surface requirement	<ul style="list-style-type: none"> ■ Excellent surface characteristics ■ Good mechanical properties ■ Better material handling 	85 °C (185 °F)	30 min at 150 °C (302 °F)

	Matrix	Features	Tg	Recommended Curing cycle
High Toughness	P Series : Toughened epoxy for sporting goods B Series : Toughened epoxy for lightweight sporting goods Typical Applications : Frames and components for racing cycles, robotic arms, medical facilities.	<ul style="list-style-type: none"> ■ Ideal for bag pressure molding ■ Good fatigue resistance ■ High stiffness ■ Ease of molding to complex shape ■ Good tackiness 	130 °C (266 °F)	30 min at 150 °C (302 °F)
	M Series : Highly-toughened epoxy for primary and secondary structure applications	<ul style="list-style-type: none"> ■ Toughened ■ High surface quality ■ Moderate tack ■ Higher elastic modulus 	140 °C (284 °F)	5-30 min at 150 °C (302 °F)
CNT added	A Series : Toughened CNT epoxy for primary structure applications D Series : Toughened CNT epoxy for shaft application G Series : Toughened CNT epoxy for lightweight application Typical Applications : forks, bicycle rims, sport goods, shafts, and fish rods.	<ul style="list-style-type: none"> ■ Toughened ■ Controlled flow ■ Moderate tack ■ Enhanced breaking elongation 	140 °C (284 °F)	30 min at 150 °C (302 °F)
Light Weight & High Modules	R Series : Modified Epoxy with high modulus fiber and overcome strain magnification applications Typical Applications : shafts and fish rods. (shaft tip requires high torque and vibration absorption.)	<ul style="list-style-type: none"> ■ Excellent vibration absorption ■ Good impact resistance ■ Enhanced ILSS (Inter-Laminar Shear Stress) 	139 °C (282 °F)	90 °C (194 °F) for 30 min +135 °C (275 °F) for 90 min



	Matrix	Features	Tg	Recommended Curing cycle
Fast Cure	Z Series : Modified Epoxy with pre-formed IPN structure(Interpenetration Polymer Network Structure)	<ul style="list-style-type: none"> ■ Toughened ■ Fast Cure ■ Controlled flow ■ High surface quality 	123 °C (253 °F)	10-15 min at 130-150 °C
	TR Series : Toughened epoxy for rapid curing requirement at medium curing temperature	<ul style="list-style-type: none"> ■ Toughened ■ Fast Cure ■ Wide range molding process 	140 °C (284 °F)	10 min at 130 °C, Curing Temperature range 120-150 °C
Low temp cure	LL Series : Toughened epoxy for Out of Autoclave (OOA) process	<ul style="list-style-type: none"> ■ Low temp cure (80°C) with acceptable Tg ■ Good Tg (140°C) development ■ Vacuum-Only process 	140 °C (284 °F)	80 °C (176 °F) for 5hrs cure 120°C (248 °F) for 2hrs post cure

	Matrix	Features	Tg	Recommended Curing cycle
High Tg	H Series : Toughened epoxy for high-temp cure requirement Typical Applications : Forks, bicycle rims, heat resistance goods.	<ul style="list-style-type: none"> ■ Good heat resistance ■ Flexible cure cycle (without post-cure) ■ Low viscosity during processing ■ Toughened ■ Good impact resistance ■ Out life greater than 60 days at 25 °C (77 °F) 	168 °C (334 °F)	30 min at 150 °C (302 °F)
	I Series : Toughened epoxy for higher Tg and lower tack requirement	<ul style="list-style-type: none"> ■ Higher Tg and lower tack ■ Good heat resistance ■ Controlled flow 	206 °C (403 °F)	180 °C (356 °F) for 1hr cure + 240 °C (464 °F) for 2-4 hrs post cure
	HM Series : HighTg (280°C) toughened epoxy	<ul style="list-style-type: none"> ■ Good heat performance ■ Good tack ■ Free standing post-cure 	280 °C (536 °F)	175-180 °C (347-356 °F) for 4 hrs cure + 240 °C (464 °F) for 4 hrs post cure
Flame Retardant	YZF Series : Modified epoxy for flame retardant Specific design for traditional autoclave or press molding process.	<ul style="list-style-type: none"> ■ High thermal stability ■ Good strength at high temperature ■ Flammability test with FAR 25.853 / AirbusABD0031 / Boeing D6-51377 qualification ■ Controlled flow 	255 °C (491 °F)	180 °C (356 °F) for 1 hr cure +240 °C (464 °F) 4 hrs post cure