



**AP** AYISWARYA POLYMERS®



**AIPOL™**

## THE COMPANY PROFILE

Ayiswarya Polymers established in 1997, has created reputation for technical enterprise in the field of Unsaturated Polyester Resins, to support industries like Marine products like [boat fabrication], Automotive, sports, garden furniture, button for garments, statue castings, solid surface, marble castings, polymer concrete, roof bolt, furniture lamination, putty, Cooling tower, pultrusion, smc, dmc Filament winding, RTM, Gelcoat, Thixotropic Resin For Export, Choke, FRR, Roof Light, Sanitary Products and many more customized for consumer's requirements ( Glass Fiber Reinforced Plastics).

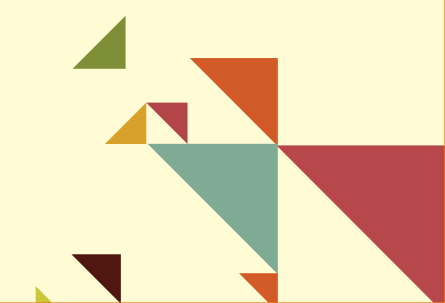
Ayiswarya Polymers has good reputation and consistent quality to provide customers requirements. Shri Krishna Kumar is the Managing partner, who has extensive hands on experience in the formulation, development and manufacture of Unsaturated Polyester Resins. Over the years Ayiswarya Polymers has built up a good clientele of original equipment manufacturers in many fields. The Manufacturing operation is in Sengalipalayam, 15 Kms from Coimbatore Airport. Administration & Sales office is Located in Heart of the city, with branch offices in Chennai & Bengaluru.

## PLANT INFRASTRUCTURE

The Plant is totally automatic PLC controlled and provides its own utility of captive power, DM plant, treated water for cooling tower and thermic fluid heater with economizer. The quality assurance system consists of state of the art equipment for the testing of chemical, physical, mechanical and thermal properties of liquid resins, cast resins, and laminates. The Laboratory equipment consists of computerized testing Machine and digital Brook field viscometer apparatus, Electronic balances with wet analysis Kit. The plant production capacity is 6000 MT per annum and we cover major Product lines manufactured in separate reactor and blender equipments. The manufacturing strength is supported by a well maintained supply chain for input.

## STANDARDS

Ayiswarya Polymers resins are custom made and confirming to internationally accepted standards like IS, BS and ASTM. Ayiswarya Polymers specializes in General Purpose, Ortho phthalic Resin , Isophthalic Corrosion Resistant Resin and is seeking the certificate of Approval from Indian Register of Shipping and ISO certification.



## MANUFACTURING

Ayiswarya Polymers aim is to improve the technology and equipment quality and stability of products depend highly on responsive process assurance and control. Ayiswarya polymers have all equipments to ensure that all the products are manufactured with utmost care and controlled process conditions.

## QUALITY ASSURANCE & LABORATORY

Our Quality assurance begins from the raw materials, testing for compliance with Manufacturer's standards. Materials are received and checked again in the laboratory for their physical as well as chemical properties. The laboratory is well equipped with the instruments to evaluate the Melting Point, Boiling point, Viscosity, Refractive Index and so on. Special purpose Resins are developed, tested with the tensile strengths as well as the tensile/flexural strength for testing the cast/glass fiber Laminates. The samples, obtained from every batch are yearmarked and stored for reference. These are further evaluated to observe the effect of ageing. The samples also come handy for an evaluation requested by the clients for a specific purpose.

## RESEARCH & DEVELOPMENT:

The continuity of a Company's Success depends heavily on continuous development and research for new application, better quality/performance.

Our development department has the responsibility of product development, process improvement and technical support. These efforts enable successful transition from laboratory development to mass production. We have a team of fully qualified specialist with hands on experience in the field or resin manufacture. With the state of the art, equipment for in depth studies of production and application of resin in FRP. We are well equipped to face fierce global competition and challenges backed by strong Research & Development wing managed by a team of technocrats who have associated with well-established concerns.



S.No	Product Code	Product Description	Application	Appearance	Viscosity	Geltime
Orthophthalic Resins					at25deg	at30deg
1	AIPOL - 1101	Clear, Superior Laminating resin	For reinforced plastics, lamination purpose	clear	250 - 450	08 to 12 min
2	AIPOL - 1121	Pre accelerated superior laminating resin	FRP products like boats, bus, car parts etc.,	pinkish clear	250 - 450	08 to 12 min
3	AIPOL - 1102	General purpose laminating resin	cost effective FRP products	light yellow	200 - 350	05 to 09 min
4	AIPOL - 1122	General purpose pre accelerated laminating resin	cost effective FRP products	pinkish clear	200 - 350	05 to 08 min
5	AIPOL - 3101	Button Grade	for the production of polyester buttons	clear	800 - 1400	05 to 08 min*
6	AIPOL - 4101	Marine grade pre accelerated resin	for making boats and marine products	pinkish	450 - 650	10 to 15 min
7	AIPOL - 5101	Low viscosity nonwaxed acrylic modified laminating resin,	for all types of translucent roofing sheets	clear	200 - 250	12 to16 min
8	AIPOL - 5102	UV stabilized, superior laminating resin	For all types of translucent roofing sheets	clear	200 - 250	12 to16 min
9	AIPOL - 5103	Low viscosity laminating resin	for all types of cost effective translucent roofing sheets	clear	200 - 250	12 to16 min
Isophthalic Resins						
10	AIPOL - 2101	Superior Quality high HDT, chemical resistant resin	for all types of hand lay up application for making chemical tanks etc.,	light yellow	400 - 650	12 to 16 min
11	AIPOL - 2102	UV stabilized, high HDT, chemical resistant resin	For all types of HLU, Spray and pultrusion purpose	light yellow	400 - 650	12 to 16 min
12	AIPOL - 2121	Pre accelerated thixotropic isophthalic resin	For all types of HLU, Spray and pultrusion purpose and for making chemical tanks, pipes etc.,	pinkish	600 - 900	12 to 16 min
13	AIPOL - 2201	Medium reactive pultrusion resin	for the pultruded electrical engineering products	clear	500 - 700	10 to 15 min

S.No	Product Code	Product Description	Application	Appearance	Viscosity	Geltime
Terephthalic Resins						
14	AIPOL - 1103	PTA Based clear resin	for the production of chemical resistant FRP products	hazy	200 - 350	06 to 09 min
15	AIPOL - 1104	General purpose cost effective resin	cost effective FRP products	hazy	200 - 350	06 to 09 min
16	AIPOL - 1144	Pre accelerated general Purpose cost effective resin	cost effective FRP products	pinkish	200 - 350	06 to 09 min
NPG Based Resins						
17	AIPOL - 2111	Superior isophthalic resin	For all types of HLU, Spray and poltrution purpose	light yellow	450 - 800	10 to 15 min
18	AIPOL - 7101	Acrylic modified Preaccelerated clear Solid surface resin	for making artificial solid surface/sanitary etc.,	clear	600 - 750	10 to 15 min
19	AIPOL - 7102	Marble grade resin	for making artificial marbles, stones etc.,	clear	300 - 600	10 to 15 min
Putty Grade Resins						
20	AIPOL - 6101	Orthophthalic based putty resin	for making automobile sheet repairing paste	light yellow	400 - 550	18 to 25 min**
21	AIPOL - 6102	Isophthalic based putty resin	for making polyester putty --marble jointing	light yellow	450 - 600	15 to 22 min**
22	AIPOL - 6103	PTA based,cost effective putty resin	for making tinkering paste	light br.yellow	300 - 450	20 to 32 min**
23	AIPOL - 6104	DCPD Based putty resin	for making polyester putty - marble jointing	light yellow	600 - 800	12 to 15 min**
Fire Retartant Resins						
24	AIPOL - 8101	Orthophthalic Based FRR resin	for making fire retardant laminates	whitish viscous	800 - 1400	12 to 18 min
25	AIPOL - 8201	Isophthalic based FRR resin	for making fire and chemical resistant laminates	whitish viscous	800 - 1400	12 to 18 min

S.No	Product Code	Product Description	Application	Appearance	Viscosity	Geltime
Gelcoats						
26	AIPOL - 1110	Orthophthalic UV Stabilized gelcoat	for the protection of FRP products	hazy viscous	as per requirement	15 - 22 min
27	AIPOL - 2110	Isophthalic based UV stabilized gelcoat	for the protection/lining of chemical FRP products	hazy viscous	do	15 - 22 min
28	AIPOL - 2220	Isophthalic, pre accelerated UV stabilized gelcoat	for the protection/lining of chemical FRP products	pinkish viscous	do	15 - 22 min
29	AIPOL - 7110	NPG based, UV stabilized pre accelerated superior gelcoat	for the lining of FRP products to get high glossy finish	pinkish viscous	do	15 - 25 min
30	AIPOL - 8110	Orthophthalic Based FRR gelcoat	for the protection of FRR products	white viscous	do	15 - 25 min
31	AIPOL - 8220	Isophthalic based FRR gelcoat	for the protection/lining of chemical FRP products	white viscous	do	15 - 25 min
32	AIPOL - 2330	Isophthalic based white pigmented gelcoat	for the protection/lining of chemical FRP products	white viscous	do	15 - 25 min
Special Grades						
33	AIPOL - 9101	Vinyl Ester resin	for laminating chemical resistant for strong acids and alkalies	light yellow	350 - 550	20 - 25 min
34	AIPOL - 9201	Bisphenol resin	for laminating chemical resistant and for part using high temperature	light yellow	400 - 600	20 - 25 min
35	AIPOL - 7030	Saturated polyester resin	for powder coating paint industries	light yellow	4000 - 6000	
36	AIPOL - 7040	Saturated polyester resin	for powder coating paint industries	light yellow	3000 - 5000	
37	AIPOL - 7050	Saturated polyester resin	for powder coating paint industries	light yellow	4000 - 7000	
38	AIPOL - 4500	Export Grade	As Per Customer Specification			



## Notes

1. All the properties are checked in accordance with the methods indicated in IS 6746 -1994 and the values can vary with in the tolerance mentioned there in.
2. Geltime @ 29'C it measured with 1.5 ml of accelerator ( 2 % cobalt solution ) and 1.5 ml of catalyst.  
\*Geltime measured with 0.5 ml. of accelerator 2% and 1.5 ml. of catalyst, \*\*Geltime measured with 1.5 ml of 10% DMA and 3 gm of 50% BPO paste for 100 g resins.
3. The UP resins can also be made available in UV stabilised, thixotropic, gelcoat and fire retardant versions.
4. Besides above grades, resins to given specifications and specific applications can be made availbale against requirements.
5. All the resins are of limited shelf life and are recommended to be stored in cool below 25'C and dry areas away from sunlight and heat source to prevent damages during storage.
6. The specification of each grade of resin are achieved in our laboratory after repeated testing : However the customers are advised to contact us with details of applications, usage and recommendations in the interest of product acceptance, cost and quality emphasis.

## Storage & Handling

- 1 The containers are recommended to be stored in cold and dry conditions for better results. Exposure to sources of heat, sunlight is to be avoided. After drawing the required resin, the container is to be securely closed. Left over quantities after usage are not to be transferred back to the container.
- 2 Accelerator and catalyst are not to be mixed together in the resin . Catalyst is added after thoroughly dispersing the accelerator. All direct contacts of accelerator and catalyst are strictly prohibited as they can lead to explosion.
- 3 The resins contain a volatile monomer with a flash point of 32'C and are of moderate fire hazard. Due precautions to be observed while handling to avoid accidents. Use of copper, zinc and iron metals in handling can adversely affect the batch life and cure of resin.

## Packages

220 kgs Epoxy Coated Drum, 35kgs Carbouy and 220kgs plastic drums.

## Shelf Life

The resins are guaranteed for a shelf life 3 months from the date of manufacture when stored at temperature below 25'C. Shelf life drops significantly at higher temperature.



Admin & Sales Office

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Our Factory

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