



GENERIC RESIN TYPES

July 17, 2017

This reference is intended to provide a means to identify suitable FRPI Laminate Specifications for simple applications based upon resin, surface veil and cure recommendations made by Resin Suppliers, FRP Equipment Manufacturers, Industry Consultants and FRPI. These generic resin types that make up the basis for FRPI Laminate Specifications were publicly developed by the Engineering Division of the Technical Association of the Pulp and Paper Industry ("TAPPI") Corrosion and Materials Engineering Committee, committee assignment CA-4684. The committee that developed this reference was comprised of Resin Suppliers and FRP Equipment Manufacturers. These generic resin types agreed upon were first published in a paper titled, "A Guide to the Use of Epoxy, Furan, Polyester and Vinyl Ester Equipment" in TAPPI Engineering Conference Book 1 in September 1989. Each Resin Supplier has been contacted by FRPI, input was included and resin types updated to reflect industry mergers and acquisitions as well as currently available resins.

CAUTION: This reference **IS NOT** intended to suggest Supplier's resins are chemical or functional equivalents to competing brands nor is the listing all inclusive. Extensive testing and documented case histories have proven some resin brands of the same type perform better than others in certain applications. Please contact resin manufacturers for detailed resin performance experience for your specific application prior to final selection.

To use this resin brand to FRPI Laminate Specification reference simply:

1. Obtain a resin and surface veil recommendation.
2. Look up the resin recommended in the table below.
3. Look across to the FRPI Generic Resin Type and note the category name.
4. Turn to FRPI Laminate Certification Manual table of contents.
5. Locate the FRPI Generic Resin Type.
6. Choose Laminate Spec number corresponding with type and number of surface veils recommended.

FRPI GENERIC RESIN TYPE	RESIN MANUFACTURER BRANDS AND PRODUCT NUMBERS					
	AOC Vipel®	ASHLAND Aropol®	Derakane®	Hetron®	INTERPLASTIC CoREZYN®	REICHOLD Dion®
Isophthalic Polyester (rigid)	F701	7241 7242			75-AQ-001, S & W 75-AQ-010, S & W 75-AA-011	6631
Isophthalic Polyester (resilient)	F737 F738	7334			75-AQ-610	6334
Fire Retardant Halogenated Isophthalic Polyester	K733			99P 92FR		FR7767
Chlorendic Acid Polyester	K190			197-3	16-DA-097	797
Bisphenol-A Polyester	F282			700		382 (was Atlac) 6694
Bisphenol-A Epoxy Vinyl Ester	F010		411	922	8300	9100 9102
Bis-A Epoxy VE (lower MW)			411C	922L	8100-45	
Bis-A Epoxy VE (higher HDT)	F007		441	942	8360	9160
Bis-A Epoxy VE (higher cross linked)	F080		441	980	8710 8770	9160
Bis-A Epoxy VE (higher cross linked, low VOC)	F083		441	980/35	8360	9160
Bis-A Epoxy VE (urethane modified)						9800 (was Atlac 580)
Fire Retardant Brominated Bisphenol-A Epoxy Vinyl Ester	K022-C K022-CN		510C	FR992 992SB	VE8450 VE8440M-AT	FR9300
Fire Retardant Brominated Bis-A Epoxy VE (ASTM E84 Class I no AT)	K022-A		510A		VE8440	
Fire Retardant Brominated Bis-A Epoxy VE (higher cross linked)	K023			998		
Epoxy Novolac Vinyl Ester	F085		470	970	8730	9400
Epoxy Novolac VE (higher HDT)	F086		470HT			
Fire Retardant Brominated Epoxy Novolac Vinyl Ester (No AT for K095)	K095		510N			
Furan ("Furfuryl Alcohol")				800		