



# Vinyl Ester Base Resins

Polynt Composites' Vinyl Ester Base Resins are premium grade thermosetting resins. These resins are used in a wide range of corrosion-resistant applications. The outstanding mechanical properties make them ideal for applications that require excellent toughness and fatigue resistance.

Polynt Composites' Vinyl Ester Base Resins:

- Offer excellent corrosion resistance
- Can be modified to customer requirements when shipped in bulk
- Low and no VOC
- Used in laminating and closed molding applications



## Vinyl Ester Base Resins

Product Code	Viscosity (cP)	% Styrene	Product Description	Recommended Application
<b>Bisphenol A Epoxy VE</b>				
781-0430	450	35	Unpromoted low molecular weight vinyl ester resin meets low emission provisions of SCAQMD Rule 1162 with 35% styrene content	<ul style="list-style-type: none"> <li>High temperature composite applications, components exposed to polar solvents, corrosion, marine</li> <li>Filament winding, hand lay-up, pultrusion</li> </ul>
781-2130	425	42	An unpromoted medium molecular weight vinyl ester-based resin; formulated for lamination and filament winding of corrosion-resistant equipment; excellent toughness and temperature resistance	<ul style="list-style-type: none"> <li>Tanks, piping systems for use in pulp and paper and chemical process industries, corrosion, marine, FDA approvable</li> <li>Filament winding, hand lay-up</li> </ul>
781-2140	150	46	An unpromoted medium molecular weight vinyl ester resin with low viscosity; for closed molding	<ul style="list-style-type: none"> <li>Transportation components, centrifugal chemical pipe, cast-in-place sewer liner, marine</li> <li>RTM, infusion, casting</li> </ul>
<b>Brominated Bisphenol A Epoxy VE</b>				
755-8590	400	38	Flame-retardant vinyl ester resin that meets a class I flame spread rating by ASTM E84 when used with 1.5% antimony trioxide	<ul style="list-style-type: none"> <li>Chemical Ducting (ICBO), MIL-R-24709 for marine equipment, corrosion</li> <li>Filament winding, hand lay-up</li> </ul>
Epovia® KRF-2000 SE	400	37	Brominated Bisphenol A epoxy based VE resin with excellent bleaching and corrosion resistance meets a class I flame spread	<ul style="list-style-type: none"> <li>Marine, corrosion, chemical ducting</li> <li>Filament winding, hand lay-up</li> </ul>
<b>High Reactivity Bisphenol A Epoxy VE</b>				
789-8710	390	40	A high crosslinked vinyl ester resin that is unpromoted; has a high HDT (280°F) & corrosion-resistant properties; fast pull speeds for pultrusion application	<ul style="list-style-type: none"> <li>Vinyl ester resin for formulating a resin for FDA, corrosion-resistant tanks or pipes, grating</li> <li>Pultrusion, hand lay-up</li> </ul>
<b>Novolac Epoxy VE</b>				
789-9580	540	33	An unpromoted Novolac vinyl ester that can be promoted for a variety of gel and cure times with MEKP or CHP; has high HDT (300°F) and corrosive properties	<ul style="list-style-type: none"> <li>High heat, corrosion, tanks or pipes</li> <li>Hand lay-up, filament winding</li> </ul>
<b>Toughened VE</b>				
781-6010	2500	35	Core Shell Rubber Modified VE (CSRVE) that offers improved fracture toughness and crack resistance; unpromoted, G1c crack resistance of 1,400 J/m <sup>2</sup> , HDT of 220°F	<ul style="list-style-type: none"> <li>Tanks, pipes, transportation, marine, high impact applications, blend modifier</li> <li>Filament winding, hand lay-up, pultrusion, molding</li> </ul>
787-0790	2000	35	Core Shell Rubber Modified VE (CSRVE) that offers improved fracture toughness and crack resistance; unpromoted, G1c crack resistance of 2,100 J/m <sup>2</sup> , HDT of 190°F	<ul style="list-style-type: none"> <li>Tanks, pipes, transportation, marine, high impact applications, blend modifier</li> <li>Filament winding, hand lay-up, pultrusion, molding</li> </ul>
787-2559	600	35	Toughened vinyl ester resin offering improved fracture toughness and crack resistance, unthixed, unpromoted, G1c crack resistance of 2,100 J/m <sup>2</sup> , HDT of 190°F	<ul style="list-style-type: none"> <li>Tanks, blending resin, transportation, pipe</li> <li>Hand lay-up, pultrusion, infusion, molding, filament winding</li> </ul>
Epovia KRF-3200	500	38	A rubber modified elastomeric modified Bis A VE resin formulated for building reinforced plastic parts, 18% elongation	<ul style="list-style-type: none"> <li>Industrial parts, infrastructure pipe, fume and vapor ducting, high impact applications</li> <li>RTM, infusion, blending resin</li> </ul>
Epovia KRF-3202L-00	100	45	A rubber modified elastomeric modified Bis A VE resin formulated for building reinforced plastic parts, 9% elongation	<ul style="list-style-type: none"> <li>Industrial parts, infrastructure pipe, fume and vapor ducting, high impact applications</li> <li>RTM, infusion, blending resin</li> </ul>
<b>Non-Styrenated Bisphenol A Epoxy VE</b>				
781-7300	7000	0	Vinyl ester resin in 2-HEMA	<ul style="list-style-type: none"> <li>Non-styrenated systems where styrene applications cannot be used</li> <li>No VOC, corrosion, coatings</li> </ul>



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