Vipel® F282-AAC-19

Polyester Alloy

AOC, L.L.C.

Message:

Vipel® Corrosion Resistant Bisphenol A, Fumarate Based Polyester Resin
AOC's Vipel® F282 series resins are high molecular weight bisphenol A fumarate unsaturated polyester resins. Vipel® F282 series has an excellent shelf life and is ideal for filament winding and spray-up applications. One unique version is Vipel F282-ZZZ-00 which is the powdered alkyd product is an unique version that can be shipped abroad and blended locally with styrene or other monomers.
Corrosion resistance
Vipel® F282 is designed to make parts for a broad range of chemical environments such as acidic, bleach, hydrogen peroxide, oxidizing media, and caustic. Refer to AOC's "Corrosion Resistant Resin Guide" for corrosion resistance information or for questions regarding suitability of a resin to any particular chemical environment contact AOC.
Versatile
Suitable for various fabricating methods such as hand lay-up, spray-up, filament winding, etc.
It is the fabricator's responsibility to also be sure that the final composite is well cured. All composites used for FDA applications should be post cured at 180°F/82°C for at least 4 hours. After post curing , laminate should be washed with soap and water and then rinsed.

General Information	
Features	Acid Resistant
	Food Contact Acceptable
	Good Chemical Resistance
	Good Corrosion Resistance
	High Molecular Weight
	Oxidation Resistant
Uses	Coating Applications
	Filaments
Agency Ratings	FDA Unspecified Rating
Forms	Liquid
Processing Method	Filament Winding
	Hand Lay-up
	Spraying

Physical	Nominal Value	Unit
Specific Gravity	1.08	g/cm³
Styrene Content	50	%
Exotherm		
Gel to Peak	10.0	min
Peak	140	°C
Gel Time (25°C) [1]	19.0	min

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3030	MPa	ASTM D638
Tensile Strength	70.3	MPa	ASTM D638

Tensile Elongation (Break)	2.6	%	ASTM D638
Flexural Modulus	3030	MPa	ASTM D790
Flexural Strength	119	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	124	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity [2] (25°C)	500	cP	
Post Cure Time (82°C)	4.0	hr	
NOTE			
1.	1.0% M-50		
2.	RV viscosity spindle 2 at 20 rpm		

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Recommended distributors for this material

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