Vipel® F737-FFF-00

Polyester Alloy

AOC, L.L.C.

Message:

Vipel Resilient Isophthalic Polyester Resin
AOC's Vipel F737 series is a resilient isophthalic polyester resin with excellent mechanical properties. Vipel F737 resins are used extensively in grating and in the construction of large diameter water pipes for transporting water to and from power stations. Vipel F737 resins can be adapted for a variety of fabrication processes.
Internationally Recognized
Vipel F737 series resins have been used in many corrosion resistant applications such as grating and water pipes, etc.
Corrosion Resistance
This resin provides excellent corrosion resistance when used in contact with inorganic and organic acids. 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.
Food and Drug
All resins in this datasheet are manufactured from raw materials that are listed in FDA regulation Title 21 CFR 177.2420. 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 rinsed.

General Information	
Features	Acid Resistant
	Food Contact Acceptable
	Good Corrosion Resistance
	Isophthalic
	Resilient
Uses	Coating Applications
	Filaments
	Piping
Agency Ratings	FDA 21 CFR 177.2420
Forms	Liquid
Processing Method	Filament Winding
	Hand Lay-up
	Spraying

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	
Styrene Content	30	%	
Exotherm			
Gel to Peak	3.0	min	
Peak	213	°C	
Gel Time (82°C) [1]	5.0	min	

Hardness	Nominal Value	Unit	Test Method

Barcol Hardness	39		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3380	MPa	ASTM D638
Tensile Strength (Yield)	85.5	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	3930	MPa	ASTM D790
Flexural Strength	141	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	91.7	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity [2] (25°C)	2500	cP	
Post Cure Time (82°C)	4.0	hr	
NOTE			
1.	SPI gel with 1.0% BPO		
2.	Brookfield RV viscosity spindle 3 at 10 rpm		

Recommended distributors for this material

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