

# Vipel® F737-FBG-36

Polyester Alloy

AOC, L.L.C.

## Message:

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 Series resins can be adapted for a variety of fabrication processes.

### BENEFITS

#### 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.

General Information	
Features	m-benzene dimethyl Good corrosion resistance acid resistance Elastic
Uses	Piping system
Agency Ratings	FDA 21 CFR 177.2420
Forms	Liquid
Processing Method	Filament power winding Sprayable Hand coating

Physical	Nominal Value	Unit	Test Method
Styrene Content	44	%	
Gel to Peak	6.0	min	
Peak Exotherm	185	°C	
Thixotropic Index <sup>1</sup>	2.50		
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	85.5	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	3930	MPa	ASTM D790
Flexural Strength	141	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	220	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	91.7	°C	ASTM D648
Uncured Properties	Nominal Value	Unit	
Density	1.08	g/cm <sup>3</sup>	
Viscosity (25°C, Brookfield LV)	0.55	Pa·s	
Gel Time (25°C)	36	min	
NOTE			
1.	6/60 rpm		

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