Vipel® F737-BCX-00

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	40	%	
Gel to Peak	18.0	min	
Peak Exotherm	190	°C	
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	1.10	g/cm³
Viscosity (25°C, Brookfield RVT)	0.45	Pa·s
Gel Time (25°C)	12	min

Recommended distributors for this material

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WECHAT