

Vipel® F701-FBN-15

Polyester Alloy

AOC, L.L.C.

Message:

AOC's Vipel F701 Series resins are high molecular weight, two-stage isophthalic, unsaturated polyester resin with the wet out, cure and handling characteristics of general purpose resins. They have an excellent shelf life and are ideal for filament winding and spray-up. A few selected resins are listed below including the high viscosity base resin, Vipel F701-FHG-00.

BENEFITS

Corrosion resistance

AOC's Vipel F701 series resins provide excellent corrosion resistance when used in contact with inorganic and organic acids. Solvent resistance is field-proven for many petroleum products such as kerosene, heating oil and crude oils. 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 and filament winding.

General Information	
Features	High molecular weight m-benzene dimethyl Solvent resistance Good corrosion resistance acid resistance Oil resistance
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	48	%	
Gel to Peak	10.0	min	
Peak Exotherm	199	°C	
Thixotropic Index ¹	2.50		
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	43		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3790	MPa	ASTM D638
Tensile Strength	83.4	MPa	ASTM D638
Tensile Elongation (Break)	2.8	%	ASTM D638
Flexural Modulus	4210	MPa	ASTM D790
Flexural Strength	127	MPa	ASTM D790

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	107	°C	ASTM D648
Uncured Properties	Nominal Value	Unit	
Density	1.06	g/cm ³	
Viscosity (Brookfield LV)	0.55	Pa·s	
Gel Time (25°C)	15	min	
NOTE			
1.	2/20 rpm		

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