Vipel® F701-S-SPT-23

Polyester Alloy

AOC, L.L.C.

Message:

Vipel® F701-S Series resins are high molecular weight, two-stage isophthalic, unsaturated polyester resin with the wet out, cure and handling characteristics of general purpose resins. The main feature is lower styrene content.
They have an excellent shelf life and are ideal for filament winding and spray-up. A few selected resins are listed below.
BENEFITS
Corrosion resistance
AOC's Vipel® F701-S 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. F701-S series resins contain less styrene than standard versions.
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	42	%	
Gel to Peak	13.0	min	
Peak Exotherm	193	°C	
Thixotropic Index [1]	2.10		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Barcol Hardness	46		ISO 75-2/A
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3860	MPa	ISO 527-2
Tensile Stress	88.3	MPa	ISO 527-2
Tensile Strain (Break)	3.1	%	ISO 527-2
Flexural Modulus	4210	MPa	ISO 178
Flexural Stress	159	MPa	ISO 178

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	128	°C	ISO 75-2/A
Uncured Properties	**Nominal Value**	**Unit**	
Density	1.07	g/cm³	
Viscosity (25°C, Brookfield RVT)	0.55	Pa·s	
Gel Time (25°C)	30	min	
NOTE			
1.	2/20 rpm		

Recommended distributors for this material

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WECHAT