# Vipel® F085-CCC-00

# Vinyl Ester

AOC, L.L.C.

## Message:

Vipel Corrosion Resistant Epoxy Novolac, Vinyl Ester Resin

The Vipel F085 series is an epoxy novolac vinyl ester resin dissolved in styrene. The Vipel F085 series is ideally suited for applications where outstanding mechanical properties and resistance to chemicals, oxidation and heat are required.

## Corrosion resistance

The epoxy novolac backbone chemistry provides resistance to acids and bases and has superior resistance to many organic solvents. Vipel F085 series is generally resistant to liquids and vapors at higher temperatures than standard bisphenol-A epoxy vinyl ester resins.

The Vipel F085 series is well suited for use in the field of chlorine-alkali electrolysis. 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.

#### Mechanical Properties

Gel to Peak

Gel Time (25°C) 1

**Barcol Hardness** 

Tensile Modulus

Peak

Hardness

Mechanical

The Vipel F085 series is suitable for moldings that are subjected to particularly high static and dynamic loads. It is resistant to internal stress cracking under high loading.

## Versatile

Suitable for various fabricating methods such as hand lay-up, filament winding, etc.

7.0

216

12.0

44

3720

Nominal Value

Nominal Value

General Information				
Features	Acid Resistant			
	Base Resistant			
	Good Chemical Resistance			
	Good Corrosion Resistance			
	High ESCR (Stress Crack Resist.)			
	High Heat Resistance			
	Oxidation Resistant			
	Solvent Resistant			
Uses	Filaments			
Forms	Liquid			
Processing Method	Filament Winding			
	Hand Lay-up			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.06	g/cm³		
Styrene Content	40	%		
Exotherm				

min °C

min

Unit

Unit

MPa

Test Method

**ASTM D2583** 

Test Method

ASTM D638

Tensile Strength (Yield)	77.2	MPa	ASTM D638
Tensile Elongation (Break)	3.3	%	ASTM D638
Flexural Modulus	3720	MPa	ASTM D790
Flexural Strength	148	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8			
MPa, Unannealed)	149	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity <sup>2</sup> (25°C)	100	сР	
NOTE			
	Gel time with 0.3% cobalt 6%,		
	Ger time time dis 70 costant 670,		
1.	0.05% DMA and 1.5% MEKP		
1.	·		

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