

# Vipel® F017-AA-00

Vinyl Ester

AOC, L.L.C.

## Message:

Vipel Elastomeric Bisphenol A, Epoxy Vinyl Ester Resin

The Vipel F017 Series are elastomeric, bisphenol A epoxy vinyl ester resins. Vipel F017-AAA-00 is a non-promoted, non-thixotropic resin that can be formulated as needed.

Low VOC content

Versions are available that are less than 40% styrene.

Bonding

AOC's Vipel F017 Series resins are designed as a primer for bonding fiberglass laminates to steel and other substrates.

Resilience

It can also be used to manufacture hand lay-up, spray-up or filament wound parts that require a great deal of resilience.

Versatile

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

General Information			
Features	Bondability		
	Low VOC		
	Non-Thixotropic		
	Resilient		
Uses	Coating Applications		
	Filaments		
Forms	Liquid		
Processing Method	Filament Winding		
	Hand Lay-up		
	Spraying		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm <sup>3</sup>	
Styrene Content	40	%	
Exotherm			
Gel to Peak	6.0	min	
Peak	177	°C	
Gel Time (25°C) <sup>1</sup>	15.0	min	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	35		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3380	MPa	ASTM D638
Tensile Strength (Yield)	73.1	MPa	ASTM D638
Tensile Elongation (Break)	9.1	%	ASTM D638

Flexural Modulus	3380	MPa	ASTM D790
Flexural Strength	118	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	92.8	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity <sup>2</sup> (25°C)	350	cP	
NOTE			

- |    |   |
|----|---|
| 1. | Gel time with 0.5% Cobalt 6%,<br>0.3% DMA and 2.0% MEKP |
| 2. | Brookfield RV viscosity spindle 2 at<br>20 rpm          |

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Recommended distributors for this material

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