

Vipel® K095-AAA-00

Vinyl Ester

AOC, L.L.C.

Message:

Vipel Fire Retardant Epoxy Novolac, Vinyl Ester Resin

The Vipel K095-AAA-00 is a fire retardant epoxy novolac vinyl ester resin dissolved in styrene. Vipel K095-AAA-00 is ideally suited for use in hand lay-up, spray-up, and filament winding processes where outstanding mechanical properties and resistance to solvents, oxidizing environments, chemicals and good thermal mechanical properties is required.

Corrosion

The epoxy novolac-based backbone chemistry provides resistance to organic solvents and good resistance to acids and alkalis. 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.

Fire Retardancy

Vipel K095-AAA-00 meets ASTM E 84 class I requirements for flame spread and smoke development neat.

Heat Temperature Resistance

Vipel K095-AAA-00 has excellent thermal mechanical properties.

Processability

Vipel K095-AAA-00 is suitable for filament winding and hand lay up processes.

General Information			
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Corrosion Resistance		
	High Heat Resistance		
	Oxidation Resistant		
	Solvent Resistant		
Uses	Coating Applications		
	Filaments		
Forms	Liquid		
Processing Method	Filament Winding		
	Hand Lay-up		
	Spraying		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	
Styrene Content	35	%	
Flame Spread Index	25.0		ASTM E84
Smoke Developed	300		ASTM E84
Exotherm			
Gel to Peak	9.0	min	
Peak	202	°C	
Gel Time (25°C) ¹	25.0	min	

Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	42		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3720	MPa	ASTM D638
Tensile Strength (Yield)	92.4	MPa	ASTM D638
Tensile Elongation (Break)	3.6	%	ASTM D638
Flexural Modulus	3930	MPa	ASTM D790
Flexural Strength	159	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	143	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity ² (25°C)	250	cP	
NOTE			

1. Gel time with 0.2% Cobalt 6%, 0.025% DMA and 1.25% MEKP
2. Brookfield RV viscosity spindle 2 at 20 rpm

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