

Vipel® K026-PTA-20

Vinyl Ester

AOC, L.L.C.

Message:

AOC's Vipel K026 Series is a brominated bisphenol A epoxy vinyl ester resin dissolved in styrene. K026 Series is ideally suited for use in hand lay-up, spray-up, filament winding and pultrusion processes where outstanding mechanical properties and excellent resistance to chemicals and heat are required.

BENEFITS

Fire Retardant

The Vipel K026 does not require antimony trioxide to meet ASTM E 84 Class I flame spread and smoke requirements.

Mechanical Properties

Vipel K026 is suitable for moldings that are subjected to particularly high static or dynamic loads. Vinyl ester resins have excellent resistance to sustained heat.

Versatile

Wide formulating capabilities allow for use in many processes and for optimization of cost/performance.

Corrosion Resistant

Vipel K026 is highly resistant to a number of chemical environments. 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.

General Information			
Additive	Flame retardancy		
Features	Good chemical resistance		
	Heat resistance, high		
	brominated		
	Flame retardancy		
Agency Ratings	ASTM E 84 Class I		
Forms	Liquid		
Processing Method	Filament power winding		
	Sprayable		
	pultrusion		
	Hand coating		
Physical	Nominal Value	Unit	Test Method
Styrene Content	38	%	
Gel to Peak	18.0	min	
Peak Exotherm	165	°C	
Thixotropic Index ¹	1.80		
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	41		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3380	MPa	ASTM D638
Tensile Strength	80.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638

Flexural Modulus	3790	MPa	ASTM D790
Flexural Strength	147	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	119	°C	ASTM D648
Uncured Properties	Nominal Value	Unit	
Density	1.25	g/cm ³	
Viscosity (25°C, Brookfield RVT)	0.50	Pa·s	
Gel Time (25°C)	20	min	
NOTE			
1.	2/20 rpm		

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