Vipel® K026-AAA-00

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	13.0	min	
Peak Exotherm	177	°C	
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/cm³	
Viscosity (25°C, Brookfield RVT)	0.40	Pa·s	
Gel Time (25°C)	20	min	

Recommended distributors for this material

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