Vipel® K010-TBA-23

Vinyl Ester

AOC, L.L.C.

Message:

AOC's Vipel K010-TB series are promoted bisphenol A, epoxy-based vinyl ester resins dissolved in styrene and methyl methacrylate. Flame and smoke resistance is obtained by incorporating at least 60 parts of alumina trihydrate per 100 parts of resin.
Vipel K010-TB series are ideally suited for use in hand lay-up, spray-up and filament winding processes where outstanding mechanical properties and excellent resistance to chemicals and heat are required.
BENEFITS
Wide formulating capabilities allow for use in many processes and for optimization of cost/performance.
Unique composition produces a tough and versatile resin with excellent crack and craze resistance in molded parts.
Vipel K010-TB series is suitable for moldings that are subjected to particularly high static or dynamic loads. Vinyl ester resins have excellent resistance to sustained heat.
Vipel K010-TB series resins are highly resistant to several chemical environments.

General Information	
Additive	Flame retardancy
Features	Cracking resistance Good cracking resistance Good corrosion resistance Good chemical resistance Heat resistance, high Good toughness Flame retardancy
Agency Ratings	FDA 21 CFR 177.2420
Forms	Liquid
Processing Method	Filament power winding Sprayable Hand coating

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3600	MPa	ASTM D638
Tensile Strength	89.6	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	3700	MPa	ASTM D790
Flexural Strength	155	MPa	ASTM D790
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648
Additional Information	**Nominal Value**	**Unit**	
Gel to Peak	11.0	min	
HAP Content	42	%	

Peak Exotherm	180	°C
Thixotropic Index	1.50	

Uncured Properties	Nominal Value	Unit
Density	1.04	g/cm³
Viscosity (Brookfield LV)	0.32	Pa·s
Gel Time	23	min

Recommended distributors for this material

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