Vipel® F085-CAA-00

Vinyl Ester

AOC, L.L.C.

Message:

The Vipel F085 series is an epoxy novolac vinyl ester resin dissolved in styrene. 085 series is ideally suited for applications where outstanding mechanical properties and resistance to chemicals, oxidation and heat are required.
BENEFITS
Corrosion Resistance
The epoxy novolac backbone chemistry provides resistance to acids and bases and has superior resistance to many organic solvents. The F085 series is generally resistant to liquids and vapors at higher temperatures than standard bisphenol-A epoxy vinyl ester resins.
The F085 series is well suited for use in the field of chlorine-alkali electrolysis. 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.
Mechanical Properties
The F085 series is suitable for moldings that are subjected to particularly high static and dynamic loads. It is resistant to internal stress cracking under high loading.
Versatile
Suitable for various fabricating methods such as hand lay-up, filament winding, etc.

General Information	
Features	High ESCR (Stress Cracking Resistance) Solvent resistance Antioxidation Good corrosion resistance Good chemical resistance alkali resistance Heat resistance, high acid resistance
Forms	Liquid
Processing Method	Filament power winding Hand coating

Physical	Nominal Value	Unit	Test Method
Styrene Content	35	%	
Gel to Peak	7.0	min	
Peak Exotherm	216	°C	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Barcol Hardness	44		ASTM D2583
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3720	MPa	ASTM D638
Tensile Strength	77.2	MPa	ASTM D638
Tensile Elongation (Break)	3.3	%	ASTM D638
Flexural Modulus	3720	MPa	ASTM D790
Flexural Strength	148	MPa	ASTM D790

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	149	°C	ASTM D648

Uncured Properties	Nominal Value	Unit
Density	1.07	g/cm³
Viscosity (25°C, Brookfield RVT)	0.20	Pa·s
Gel Time (25°C)	15	min

Recommended distributors for this material

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