Vipel® F085-ABB-00

Vinyl Ester

AOC, L.L.C.

Message:

Vipel Corrosion Resistant Epoxy Novolac, Vinyl Ester Resin
The Vipel F085 series is an epoxy novolac vinyl ester resin dissolved in styrene. The Vipel F085 series is ideally suited for applications where outstanding mechanical properties and resistance to chemicals, oxidation and heat are required.
Corrosion resistance
The epoxy novolac backbone chemistry provides resistance to acids and bases and has superior resistance to many organic solvents. Vipel F085 series is generally resistant to liquids and vapors at higher temperatures than standard bisphenol-A epoxy vinyl ester resins.
The Vipel 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 Vipel 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	Acid Resistant
	Base Resistant
	Good Chemical Resistance
	Good Corrosion Resistance
	High ESCR (Stress Crack Resist.)
	High Heat Resistance
	Oxidation Resistant
	Solvent Resistant
Uses	Filaments
Forms	Liquid
Processing Method	Filament Winding
	Hand Lay-up

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm³	
Styrene Content	32	%	
Exotherm			
Gel to Peak	5.0	min	
Peak	193	°C	
Gel Time (25°C) [1]	15.0	min	
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 (Yield)	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
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity [2] (25°C)	500	cP	
NOTE			
1.	Gel time with 0.3% cobalt 6%, 0.05% DMA and 1.5% MEKP		
2.	Brookfield RV viscosity spindle 2 at 20 rpm		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT