

MFE® -2

Vinyl Ester
Huachang Polymer Co., Ltd.

Message:

MFE-2 is a bisphenol-A epoxy vinyl ester resin, offering excellent general properties, mechanical properties and corrosion resistance.

PROPERTY

Reliable process performance.
Better resistance against acid and alkali.
Lloyd's Registered.

Complies with FDA regulation 21 CFR 177.2420, when properly formulated and cured, for repeated use in food contact materials.

APPLICATION

Various types of anti-corrosive FRP products, chemical tank, pipe, marine/yachts, etc.
Used in FRP protective surface of metallic or concrete structure
Used as the jointing material of integral anti-corrosive resin-mortar flooring, granite and anti-proof brick, etc
Can be used in filament winding, pultrusion, hand lay-up and spray-up process.

General Information			
Features	Acid Resistant		
	Alkali Resistant		
	Food Contact Acceptable		
	Good Corrosion Resistance		
Uses	Marine Applications		
	Piping		
	Protective Coatings		
	Tanks		
Appearance	Light Green		
Processing Method	Filament Winding		
	Hand Lay-up		
	Pultrusion		
	Spraying		
Physical	Nominal Value	Unit	
Acid Value	< 12.00	mg KOH/g	
Solids Content	57 to 63	%	
Viscosity (25°C)	300 to 500	mPa·s	
Thermal Stability (80°C)	> 1	day	
Gel Time (25°C)	10.0 to 20.0	min	
Gel to Peak	5.0 to 10.0	min	
Peak Exotherm	150 to 180	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ASTM D638

Tensile Strength	85.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3300	MPa	ASTM D790
Flexural Strength	140	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648

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