

# MFE® -30

Vinyl Ester  
Huachang Polymer Co., Ltd.

Message:

MFE-30 is a high performance bisphenol-A epoxy vinyl ester resin and has excellent corrosion resistant property.

PROPERTY

Excellent process performance and wet-out with fiber.

Excellent corrosion resistant especially to inorganic acid, alkali and salt.

Excellent mechanical properties, especially resistance to dynamic load.

Low peak exotherm, low shrinkage.

APPLICATION

Various FRP products, especially thick parts.

Can be used in various processes, such as filament winding, pultrusion, spray up, hand lay-up, etc

Applied in engineering projects, such as integral resin mortar flooring, sewing materials, protection layer of metal and concrete structures, etc.

General Information			
Features	Acid Resistant		
	Alkali Resistant		
	Good Corrosion Resistance		
	Low Exotherm		
	Low Shrinkage		
	Salt Water/Spray Resistant		
Uses	Engineering Parts		
	Flooring		
Appearance	Yellow		
Forms	Liquid		
Processing Method	Filament Winding		
	Hand Lay-up		
	Pultrusion		
	Spraying		
Physical	Nominal Value	Unit	Test Method
Acid Value	7.00 to 13.00	mg KOH/g	
Solids Content	58 to 66	%	
Thermal Stability (80°C)	> 1	day	
Gel Time (25°C)	11.0 to 19.0	min	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	45		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3600	MPa	ASTM D638
Tensile Strength	90.0	MPa	ASTM D638

Tensile Elongation (Break)	5.8	%	ASTM D638
Flexural Modulus	3400	MPa	ASTM D790
Flexural Strength	150	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	105	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	350 to 550	cP	

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#### Recommended distributors for this material

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