

MFE® -36

Vinyl Ester
Huachang Polymer Co., Ltd.

Message:

MFE-36 is based on bisphenol-A epoxy vinyl ester resin, modified by methacrylic acid. It has excellent flexibility.

PROPERTY

Excellent process performance and wet-out with fibers.

Excellent corrosion-resistance, especially to inorganic acid, alkali, salt, etc.

Excellent mechanical properties.

High tensile elongation.

Low peak exotherm, low shrinkage.

APPLICATION

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

Various FRP products.

Corrosion resistant flooring, sealing material, FRP layer on the surface of metal and concrete structure.

General Information			
Features	Acid Resistant		
	Alkali Resistant		
	Good Corrosion Resistance		
	Good Flexibility		
	High Elongation		
	Low Exotherm		
	Low Shrinkage		
	Rapid Wetting		
	Salt Water/Spray Resistant		
Uses	Flooring Maintenance/Repair		
	Protective Coatings		
	Sealants		
Appearance	Yellow		
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	51 to 59	%	
Thermal Stability (80°C)	> 1	day	
Gel Time (25°C)	15.0 to 25.0	min	
Brookfield Viscosity ¹ (25°C)	400 to 600	mPa·s	

Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ASTM D638
Tensile Strength	85.0	MPa	ASTM D638
Tensile Elongation (Break)	7.0	%	ASTM D638
Flexural Modulus	3200	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
NOTE			

1. Brookfield #63@60rpm

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