

MFE® -10

Vinyl Ester
Huachang Polymer Co., Ltd.

Message:

MFE-10 is a bisphenol-A epoxy vinyl ester resin with low styrene emission

Property

Suitable viscosity, excellent infiltration with glass fiber.

Low styrene content

Excellent chemical resistance.

Heat distortion temperature of casting is 130°C

Application

Special for the molding processes of thermal curing FRP such as pultrusion, filament winding, etc

Used to cementation or repairing material for concrete structure.

General Information			
Features	Good Chemical Resistance		
	Low Emissions		
Uses	Construction Applications		
	Flooring Maintenance/Repair		
Appearance	Transparent - Slight Yellow		
Processing Method	Filament Winding		
	Pultrusion		

Physical	Nominal Value	Unit	Test Method
Acid Value	8.00 to 16.00	mg KOH/g	
Solids Content	70 to 76	%	
Thermal Stability (80°C)	1	day	
Gel Time (25°C)	10.0 to 20.0	min	

Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	45		ASTM D2583

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ASTM D638
Tensile Strength	75.0	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	3200	MPa	ASTM D790
Flexural Strength	140	MPa	ASTM D790

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	130	°C	ASTM D648

Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	400 to 500	cP	

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