

MFE® -5

Vinyl Ester
Huachang Polymer Co., Ltd.

Message:

MFE-5 is acrylic acid type vinyl ester resin modified with isocyanate. Compared with 3201 and 3202, MFE-5 has better corrosion resistance and mechanical properties.

PROPERTY

Good water-proof and acid-, alkali-resistance

High tenacity and low shrinkage, good mechanical function

Good air drying. Can be used as surface coating

Long-term service temperature is 90?

APPLICATION

Various anti-corrosion FRP products

Used in FRP protective linings or surface coating

Can be used in hand lay-up, pultrusion and filament winding process

General Information			
Features	Acid Resistant		
	Alkali Resistant		
	Good Corrosion Resistance		
	Low Shrinkage		
	Low to No Water Absorption		
Uses	Coating Applications		
	Liners		
	Protective Coatings		
Appearance	Yellow		
Processing Method	Hand Lay-up		
Physical	Nominal Value	Unit	Test Method
Acid Value	6.00 to 14.00	mg KOH/g	
Solids Content	51 to 57	%	
Thermal Stability (80°C)	> 1	day	
Gel Time (25°C)	10.0 to 19.0	min	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	45		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ASTM D638
Tensile Strength	75.0	MPa	ASTM D638
Tensile Elongation (Break)	5.3	%	ASTM D638
Flexural Modulus	4000	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method


Deflection Temperature Under Load (1.8 MPa, Unannealed)	100	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	350 to 550	cP	

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