

MFE® -11

Vinyl Ester

Huachang Polymer Co., Ltd.

Message:

MFE-11 is a bisphenol-A epoxy vinyl ester resin with high performance and excellent corrosion resistance.

PROPERTIES

Moderate viscosity, effectively wet out with glass fiber

Good air drying, surface drying in 45 min

Excellent corrosion resistance, especially to alkali.

Low peak exotherm, low shrinkage, superior toughness. Do not crack when making thick parts.

Lloyd's Registered.

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

APPLICATION

Chemical storage tank, pipeline, cabin and the jointing material of integral anti-corrosive resin-mortar flooring, granite and anti-proof brick, etc.

Liner and flake of FRP protective surface of metal or concrete structure.

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

General Information			
Features	Alkali Resistant		
	Food Contact Acceptable		
	Good Corrosion Resistance		
	Good Crack Resistance		
	Good Toughness		
	Low Exotherm		
	Low Shrinkage		
	Medium Viscosity		
Uses	Industrial Tanks		
	Liners		
	Piping		
Agency Ratings	FDA 21 CFR 177.2420		
Appearance	Transparent - Slight Yellow		
Processing Method	Filament Winding		
	Hand Lay-up		
	Pultrusion		
	Spraying		
Physical	Nominal Value	Unit	Test Method
Acid Value	6.00 to 12.00	mg KOH/g	
Solids Content	59 to 65	%	
Viscosity (25°C)	300 to 500	mPa·s	
Thermal Stability (80°C)	> 2	day	
Gel Time (25°C)	8.0 to 16.0	min	

Gel to Peak	6.0 to 14.0	min	
Peak Exotherm	130 to 140	°C	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	45		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	4200	MPa	ASTM D638
Tensile Strength ²	85.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	5.0	%	ASTM D638
Flexural Modulus			ASTM D790
-- ⁴	> 12000	MPa	
-- ⁵	4000	MPa	
Flexural Strength			ASTM D790
-- ⁶	> 320	MPa	
-- ⁷	150	MPa	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁸ (1.8 MPa, Unannealed)	105	°C	ASTM D648

NOTE

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