

MFE® -4

Vinyl Ester
Huachang Polymer Co., Ltd.

Message:

MFE-4 which modified by HET acid (1'4'5'6'7'7'-hexachlorobicyclo(2'2'1)-5-heptene-2'3-dicarboxylic acid), is a special chlorine resistant vinyl ester resin.

PROPERTY

HET acid in molecular structure protects the ester group, which largely increases the resin's corrosion resistance, especially to Cl 2 and various acids. Besides, the HET acid structure contains two five-membered rings, which makes MFE-4 has good thermal stability, fire-retardancy and chemical resistance.

APPLICATION

Various integral anti-corrosion FRP products, such as pipes, tank truck, scrubber, etc.

Special for FRP equipment of ClO 2 bleaching system in paper and pulp industry, lining of bricks. Can be used as daub resin.

Special for covers of electrolytic cells in chlorine-alkali industry.

General Information			
Features	Acid Resistant		
	Chlorine Resistant		
	Flame Retardant		
	Good Chemical Resistance		
	Good Corrosion Resistance		
	Good Thermal Stability		
Uses	Industrial Applications		
	Piping		
	Tanks		
Appearance	Yellow		
Physical	Nominal Value	Unit	Test Method
Acid Value	14.00 to 22.00	mg KOH/g	
Solids Content	60 to 66	%	
Thermal Stability (80°C)	> 1	day	
Gel Time (25°C)	15.0 to 25.0	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	70.0	MPa	ASTM D638
Tensile Elongation (Break)	3.2	%	ASTM D638
Flexural Modulus	3200	MPa	ASTM D790
Flexural Strength	130	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	95.0	°C	ASTM D648

Thermoset	Nominal Value	Unit
Thermoset Mix Viscosity (25°C)	300 to 500	cP

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

