

# MFE® -7

Vinyl Ester  
Huachang Polymer Co., Ltd.

**Message:**

MFE-7 is a bromated bisphenol-A epoxy vinyl ester with excellent fire retardancy. Both filled and non-filled fire-retardant epoxy vinyl ester resins are available based on MFE-7 resin.

**PROPERTY**

Excellent anticorrosion performance and mechanical function  
The oxygen index of FRP mixed with 3-5% Sb2O3 up to 40  
Both casting and laminate meet ASTM E-84 Flame Spread "Class 1" rating.  
Good air drying

**APPLICATION**

Used in manufacturing fire-retardant and anti-corrosive FRP products and linings, also in surface coatings

General Information			
Features	Flame Retardant		
	Good Corrosion Resistance		
Uses	Coating Applications		
	Liners		
Appearance	Yellow		
Physical	Nominal Value	Unit	
Acid Value	8.00 to 16.00	mg KOH/g	
Solids Content	58 to 64	%	
Thermal Stability (80°C)	> 1	day	
Gel Time (25°C)	15.0 to 25.0	min	
Gel to Peak	8.0 to 12.0	min	
Peak Exotherm	150 to 180	°C	
Sb2O3	3.0 to 5.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ASTM D638
Tensile Strength	75.0	MPa	ASTM D638
Tensile Elongation (Break)	3.0 to 4.0	%	ASTM D638
Flexural Modulus	3500	MPa	ASTM D790
Flexural Strength	130	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	300 to 500	cP	

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