

MFE® W2-3

Epoxy; Epoxide
Huachang Polymer Co., Ltd.

Message:

W2-3 made by ECUST is a kind of Novolac epoxy vinyl ester resin. It has excellent anticorrosion and high temperature resistance, also has excellent qualities.

PROPERTY

High heat-resistance, heat distortion temperature for casting is 145°C and for FRP is 210°C

Excellent anti-corrosion, superior stability to some solvents and oxidizing media

APPLICATION

Used in various types of anti-corrosive FRP products and linings with the needs of heat resistance

Used as the jointing material, resin mortar, and special adhesive with chemical resistance

Used as anti-corrosion FRP lining for the surface of metal or concrete.

Used for the technical processes of FRP molding, such as pultrusion, winding, spray, hand lay- up, etc.

General Information			
Features	Good Chemical Resistance		
	Good Corrosion Resistance		
	High Heat Resistance		
	Oxidation Resistant		
	Solvent Resistant		
Uses	Adhesives		
	Liners		
Appearance	Light Brown		
Processing Method	Hand Lay-up		
	Pultrusion		
	Spraying		
Physical	Nominal Value	Unit	
Acid Value	14.00 to 22.00	mg KOH/g	
Solids Content	62 to 68	%	
Thermal Stability (80°C)	> 1	day	
Gel Time (25°C)	11.0 to 21.0	min	
Cobalt Octoate - (promoter)	1.0 to 4.0	%	
Methyl Ethyl Ketone Peroxide - (curative agent)	2.0 to 3.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ASTM D638
Tensile Strength	65.0	MPa	ASTM D638
Tensile Elongation (Break)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	3600	MPa	ASTM D790

Flexural Strength	100	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	145	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	300	cP	

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