MFE® -9

Vinyl Ester

Huachang Polymer Co., Ltd.

Message:

MFE-9 Vinyl Ester Resin is a rubber modified resin with high toughness, and based on Bisphenol-A epoxy vinyl ester resin. PROPERTY

Low solid contractibility, high toughness, high ductility

Excellent fatigue resistance, impact resistance and cleavage resistance

Excellent adhesion and abrasion resistance, excellent impact strength.

Excellent penetration-proof and hermetically seal.

APPLICATION

Used in making flooring, daubing material, sealing material and interface layer of FRP lining

Used in manufacturing helmet for aviation, automobile race and military use, short sled, sailing boat and high performance racing boat

Excellent adhesion, can be used for special tackiness agent

Used with fiber and other reinforced materials, give excellent strength and fatigue resistance property to lamination

General Information					
Additive	Rubber				
Features	Ductile				
	Fatigue Resistant				
	Good Adhesion				
	Good Toughness				
	Heat Sealable				
	High Impact Resistance				
	Puncture Resistant				
Uses	Adhesives				
	Automotive Applications				
	Flooring Maintenance/Repair				
	Laminates				
	Safety Helmets				
	Sealants				
Appearance	Yellow				
Physical	Nominal Value	Unit			
Solids Content	55 to 63	%			
Thermal Stability (80°C)	> 1	day			
Gel Time (25°C)	22.0 to 38.0	min			
Peak Exotherm	120 to 140	°C			
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	2400	MPa	ASTM D638		
Tensile Strength	60.0	MPa	ASTM D638		
Tensile Elongation (Break)	11	%	ASTM D638		

Flexural Modulus	2800	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Compressive Strength	115	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	25.0	kJ/m²	ASTM D6110
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8			
MPa, Unannealed)	80.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	300 to 500	сР	

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