

# MERICAN® -9406

Polyester Alloy  
Huachang Polymer Co., Ltd.

Message:

MERICAN-9406 is iso type unsaturated polyester resin. It presents good water-proof, oil and temperature resistant properties.

PROPERTY

Good mechanical performance and high tensile elongation.

Lloyd's Registered.

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

APPLICATION

FRP boats, such as fishing boat, marine/yacht, life boat, etc.

Tanks, pipes and various glass fiber and carbon fiber reinforced plastic products.

Heat resistant FRP products.

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

General Information			
Features	Food Contact Acceptable		
	High Elongation		
	High Heat Resistance		
	Low to No Water Absorption		
	Oil Resistant		
Uses	Marine Applications		
	Piping		
	Tanks		
	Water Sports Equipment		
Agency Ratings	FDA 21 CFR 177.2420		
Appearance	Yellow		
Processing Method	Filament Winding		
	Hand Lay-up		
	Pultrusion		
	Spraying		
Physical	Nominal Value	Unit	Test Method
Acid Value	5.00 to 12.00	mg KOH/g	
Solids Content	59 to 65	%	
Thermal Stability (80°C)	> 1	day	
Gel Time (25°C)	10.0 to 14.0	min	
Gel to Peak	10.0 to 20.0	min	
Peak Exotherm	160 to 180	°C	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	42		ASTM D2583

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3600	MPa	ASTM D638
Tensile Strength	74.0	MPa	ASTM D638
Tensile Elongation (Break)	3.8	%	ASTM D638
Flexural Modulus	3600	MPa	ASTM D790
Flexural Strength	118	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	105	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	300 to 500	cP	

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#### Recommended distributors for this material

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