

MERICAN® -9709

Polyester Alloy
Huachang Polymer Co., Ltd.

Message:

MERICAN-9709 is an ORTHO type unsaturated polyester resin, offering excellent mechanical properties and high elongation.

PROPERTY

Can be weather resistant when UV inhibitor added.

Can be fire-retardant when fillers added.

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.

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

General Information			
Additive	UV Stabilizer		
Features	Food Contact Acceptable		
	Good UV Resistance		
	Good Weather Resistance		
	High Elongation		
	Orthophthalic		
Uses	Marine Applications		
	Piping		
	Tanks		
	Water Sports Equipment		
Appearance	Transparent - Slight Yellow		
Processing Method	Filament Winding		
	Hand Lay-up		
	Pultrusion		
	Spraying		
Physical	Nominal Value	Unit	Test Method
Acid Value	20.00 to 25.00	mg KOH/g	
Solids Content	60 to 66	%	
Thermal Stability (80°C)	> 1	day	
Gel Time (25°C)	10.0 to 20.0	min	
Gel to Peak	5.0 to 10.0	min	
Peak Exotherm	160 to 180	°C	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40		ASTM D2583

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3800	MPa	ASTM D638
Tensile Strength	70.0	MPa	ASTM D638
Tensile Elongation (Break)	3.4	%	ASTM D638
Flexural Modulus	3400	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
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	cP	

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