

# MERICAN® 9180P

Polyester Alloy  
Huachang Polymer Co., Ltd.

Message:

MERICAN® 9180P is a prepromoted, low viscosity orthophthalic unsaturated polyester resin, special designed for vacuum infustion and RTM process. It presents excellent mechanical properties, process performance.

PROPERTY

Low viscosity, excellent processing performance

Excellent mechanical properties, strong adhesion between laminates

Excellent fiberglass wet abilityand easy roll

Very low peak exotherm; Thick pieces ca be formed at one time

APPLICATION

High performance composite products, such as nacelle, tank, container, etc.

Can be used in RTM, light RTM, vacuum infusion process.

General Information	
Features	Good Adhesion
	Low Exotherm
	Low Viscosity
	Orthophthalic
	Rapid Wetting
Uses	Compounding
	Containers
	Tanks
Appearance	Light Green
Processing Method	Resin Transfer Molding
	Vacuum Forming

Physical	Nominal Value	Unit	Test Method
Solids Content	52 to 58	%	ISO 2884
Thermal Stability (80°C)	> 2	day	
Gel Time (25°C)	1.0 to 2.0	hr	ISO 2535
Peak Exotherm	100 to 130	°C	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	45		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ASTM D638, ISO 527-2
Tensile Stress			
Yield	70.0	MPa	ISO 527-2
--	70.0	MPa	ASTM D638
Tensile Elongation (Break)	3.3	%	ASTM D638, ISO 527-2

Flexural Modulus	3300	MPa	ASTM D790, ISO 178
Flexural Strength	115	MPa	ASTM D790, ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	85.0	°C	ASTM D648, ISO 75-2/A
Thermoset	Nominal Value	Unit	Test Method
Thermoset Mix Viscosity (25°C)	100 to 200	cP	ISO 2555

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