

MERICAN® 9190P

Polyester Alloy

Huachang Polymer Co., Ltd.

Message:

MERICAN® 9190P is a prepromoted, low-viscosity unsaturated polyester resin, special designed for vacuum infusion and RTM process. It presents good weathering resistance(cold and hot alternate), water resistance, excellent mechanical properties and process performance. MERICAN 9190P comply with Germanischer Lloyd (GL) requirements for wind blade applications.

PROPERTY

Low-viscosity

Shorter geltime drift, good storage stability

Low peak exotherm, thick pieces can be formed at one time

Good curing properties, thoroughly curing for thin pieces

Excellent mechanical properties, good adhesion between laminates

Resistant to fatigue, aging and corrosion

APPLICATION

Suitable for the fabrication of composites products with high performance and complex structure, especially large windmill blades and yachts, etc.

Suitable for vacuum infusion process

General Information			
Features	Fatigue Resistant		
	Good Adhesion		
	Good Corrosion Resistance		
	Good Processability		
	Good Weather Resistance		
	Low Exotherm		
	Low to No Water Absorption		
	Low Viscosity		
Uses	Engineering Parts		
Appearance	Red		
Processing Method	Resin Transfer Molding		
	Vacuum Forming		
Physical	Nominal Value	Unit	Test Method
Solids Content	55 to 60	%	ISO 2884
Thermal Stability (80°C)	> 2	day	
Gel Time (25°C)	> 2.0	hr	ISO 2535
Peak Exotherm ¹ (25°C)	70 to 110	°C	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	45		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ASTM D638, ISO 527-2
Tensile Stress			
Yield	76.0	MPa	ISO 527-2

--	76.0	MPa	ASTM D638
Tensile Elongation (Break)	3.8	%	ASTM D638, ISO 527-2
Flexural Modulus	3800	MPa	ASTM D790, ISO 178
Flexural Strength	128	MPa	ASTM D790, ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	90.0	°C	ASTM D648, ISO 75-2/A
Thermoset	Nominal Value	Unit	Test Method
Thermoset Mix Viscosity (25°C)	100 to 200	cP	ISO 2555
NOTE			
1.	100 gm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

