

MFE® 196

Polyester Alloy
Huachang Polymer Co., Ltd.

Message:

PROPERTY
Changhua Brand 196 ORTHO type unsaturated polyester resin has high mechanical property and tensile elongation.

APPLICATION
196 has been widely used in construction layer of FRP products, it could be combined with winding process to make tanks, pipelines and cooling tower etc

General Information			
Features	High Elongation		
Uses	Construction Applications		
	Piping		
	Tanks		
Appearance	Yellow		
Physical	Nominal Value	Unit	Test Method
Acid Value	16.00 to 24.00	mg KOH/g	
Solids Content	68 to 76	%	
Thermal Stability (80°C)	> 1	day	
Gel Time (25°C)	6.0 to 12.0	min	
Cobalt Naphthenate - (promoter)	1.0 to 4.0	%	
Methyl Ethyl Ketone Peroxide - (curative agent)	2.0 to 3.0	%	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ASTM D638
Tensile Strength	45.0	MPa	ASTM D638
Tensile Elongation (Break)	2.8	%	ASTM D638
Flexural Modulus	3000	MPa	ASTM D790
Flexural Strength	90.0	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	78.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	350	cP	

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