

MERICAN® -11C

Vinyl Ester
Huachang Polymer Co., Ltd.

Message:

Vinyl Ester Resin for Electrowinning Cell
MERICAN-11C is a corrosion resistant epoxy vinyl ester resin with high molecular weight. It is suitable for making monolithic polymer concrete electrowinning cells.

PROPERTY

Good wet-out with fillers and glass fiber
Air drying; Smooth and dense surface, good impermeability
Excellent mechanical properties and heat resistance
Low peak exothermic; Thick parts do not crack
Low profile, good flexibility and strong adhesion

APPLICATION

Suitable for making polymer concrete, especially for monolithic electrowinning cells in copper, zinc, nickel, cobalt and other non-ferrous hydrometallurgy industry.
Suitable for vacuum infusion process.

General Information			
Features	Alkali Resistant		
	Good Adhesion		
	Good Chemical Resistance		
	Good Corrosion Resistance		
	Good Crack Resistance		
	Good Flexibility		
	High Heat Resistance		
	High Molecular Weight		
	Low Exotherm		
	Rapid Wetting		
Uses	Electrical/Electronic Applications		
Appearance	Yellow		
Processing Method	Vacuum Forming		
Physical	Nominal Value	Unit	Test Method
Acid Value	4.00 to 12.00	mg KOH/g	
Solids Content	52 to 58	%	
Gel Time			
25°C ¹	34.0 to 62.0	min	
25°C ²	109.0 to 201.0	min	
Gel to Peak			
-- ³	1.7 to 2.5	hr	
-- ⁴	0.3 to 0.5	hr	
Peak Exotherm			
-- ⁵	60 to 80	°C	

-- 6	100 to 120	°C	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	45 to 50		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200 to 4200	MPa	ASTM D638
Tensile Strength	80.0 to 95.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0 to 5.0	%	ASTM D638
Flexural Modulus	3400 to 4000	MPa	ASTM D790
Flexural Strength	120 to 160	MPa	ASTM D790
Compressive Strength	110 to 130	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	95.0 to 105	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	150 to 250	cP	
NOTE			

1.	1.5%Butanox M-50, 1.5%NL-49P (AkzoNobel)
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4.	1.5%Butanox M-50, 1.5%NL-49P (AkzoNobel)
5.	1.0%Butanox M-50, 1.0%NL-49P (AkzoNobel)
6.	1.5%Butanox M-50, 1.5%NL-49P (AkzoNobel)

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