

SWANCOR Epoxy 905C

Epoxy; Epoxide
SWANCOR IND. CO., LTD.

Message:

SWANCOR 905C is a brominated Bisphenol A type epoxy vinyl ester resin. It provides excellent corrosion resistance to a broad range of organic and inorganic acids, alkali, oxidizing chemicals and salt solutions etc as good as Bisphenol A type resins. It also provides very good mechanical strength such as tensile and flexural while incorporated with reinforcement such glass fiber, carbon fiber or kevlar fiber etc. SWANCOR 905C offers excellent flame retardancy for FRP applications. ASTM E84 Class 1 can be achieved while incorporated with Nyacol APE 3040. It is also designed to provide superior toughness with excellent fatigue resistance due to high heat distortion temperature.

General Information	
Features	Good corrosion resistance
	Good strength
	Fatigue resistance
	Heat resistance, high
	Good toughness
	Flame retardancy
Uses	Floor maintenance/repair
	Industrial water tank
	Piping system
	Military application
Agency Ratings	FDA 21 CFR 177.2420 2
Appearance	Transparent amber
Forms	Liquid
Processing Method	Filament power winding
	Casting
	Sprayable
	pultrusion
	Hand coating
	Resin transfer molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.15	g/cm ³	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	35		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ASTM D638
Tensile Strength	82.7	MPa	ASTM D638
Tensile Elongation (Break)	5.0 - 6.0	%	ASTM D638

Flexural Modulus	3410	MPa	ASTM D790
Flexural Strength	134	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	111	°C	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	23	%	ASTM D2863
Thermoset	Nominal Value	Unit	Test Method
Shelf Life (25°C)	26	wk	
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (25.0°C)	0.300 - 0.450	Pa·s	ASTM D3835
Additional Information			
Solid Content: 65.0 ± 1.5%Gel Time: 15 to 25 min			
NOTE			
1.	± 0.02		

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