

En Chuan 601

Thermoset Polyester

En Chuan Chemical Industries Co., Ltd.

Message:

This resin is a low viscosity Bisphenol-A epoxy vinyl ester resin. It shows excellent mechanical properties and easy processing. It provides excellent corrosion resistance to a wide range of acids, alkalis and salt solutions. It is especially well suited for use in fabricating tanks, pipe and process equipment, most commercial FRP fabrication processes and anti-corrosion tank linings and coatings. This resin has obtained the DNV Type Approval Certificate.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Low viscosity		
	Workability, good		
	Good corrosion resistance		
Uses	Piping system		
	Water tank		
	Coating application		
Hardness	Nominal Value		Test Method
Barcol Hardness ¹	41		Internal method
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus			ASTM D790
-- ²	3500	MPa	ASTM D790
-- ³	7500	MPa	ASTM D790
Flexural Strength			ASTM D790
-- ⁴	135	MPa	ASTM D790
-- ⁵	186	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁶ (1.8 MPa, Unannealed)	103	°C	ASTM D648
Additional Information			
Red Accelerator, CO-oct (CO 6%): .4%Hardener, MEKPO (PO content, 55%): 1.6%			
Uncured Properties	Nominal Value	Unit	
Density (25°C)	1.04 - 1.06	g/cm ³	
Viscosity (25°C)	0.20 - 0.70	Pa·s	
Gel Time (25°C)	20 - 30	min	
Cured Properties	Nominal Value	Unit	
Tensile Modulus			
-- ⁷	3250	MPa	
-- ⁸	9510	MPa	
Tensile Strength			

-- 9	90.2	MPa
-- 10	118	MPa
Tensile Elongation at Break		
-- 11	2.0	%
-- 12	4.4	%

NOTE		
1.	Barcol 934-1 , Unfilled	
2.	Unfilled	
3.	Filled	
4.	Unfilled	
5.	Filled	
6.	Unfilled	
7.	Unfilled	
8.	Filled	
9.	Unfilled	
10.	Filled	
11.	Filled	
12.	Unfilled	

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