

En Chuan 6123TA-D

Thermoset Polyester

En Chuan Chemical Industries Co., Ltd.

Message:

This resin is a thixotropic, pre-accelerated, non-waxed, orthophthalic unsaturated polyester resin. It shows excellent performances in fishing boats, yachts, spray-up and hand lay-up applications. It has outstanding characteristics of non-sagging and dipping. This resin has obtained the DNV Type Approval Certificate.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	thixotropic		
	phthalic acid type		
Uses	Water Sports Equipment		
	Sporting goods		
	Fishery application		
Hardness	Nominal Value		Test Method
Barcol Hardness ¹	45		Internal method
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus			ASTM D790
-- ²	3800	MPa	ASTM D790
-- ³	7850	MPa	ASTM D790
Flexural Strength			ASTM D790
-- ⁴	130	MPa	ASTM D790
-- ⁵	206	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁶ (1.8 MPa, Unannealed)	65.0	°C	ASTM D648
Additional Information	Nominal Value	Unit	
Thixotropic Index (25°C)	2.00 - 3.00		
Red Accelerator, CO-oct (CO 6%): .5%Hardener, MEKPO (PO content, 55%): 1%			
Uncured Properties	Nominal Value	Unit	
Density (25°C)	1.11 - 1.13	g/cm ³	
Viscosity (25°C)	0.20 - 0.70	Pa·s	
Gel Time (25°C)	12 - 22	min	
Cured Properties	Nominal Value	Unit	
Tensile Modulus			
-- ⁷	3500	MPa	
-- ⁸	9810	MPa	
Tensile Strength			

-- 9	69.6	MPa
-- 10	108	MPa
Tensile Elongation at Break		
-- 11	1.8	%
-- 12	2.1	%

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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