

## **R118NT**

### **Resin for general laminating, boat housing.**

1. **TYPE** : Thixotropic, Prepromoted unsaturated polyester resin.
  
2. **USES** : R118NT is specially designed for the production of reinforced plastics by the spray-up and hand lay-up technique, for example boat housing, purification tank, etc.
  
3. **DISTINGUISHING CHARACTERISTICS** :

Extremely fast wet out and roll out.  
Moderate trimming time.  
Extremely development of Barcol hardness.  
Good cure in thin sections.  
No gel time drift.

4. **TYPICAL PROPERTIES** :

	Units	Spec	Remarks
Specific Gravity	25 °C/25 °C	1.08-1.12	
Viscosity	dPa .s/25 °C	2.0 – 6.0	#2, 60 rpm
Thixotropic Index	-	2.5 – 3.5	
Gel-Time	min	5-50	MEKPO 1.0 phr at 25 °C

(Specification limits are variable upon request.)

## 5. Mechanical strength of casting plate\*1

	Units	Results
Tensile Strength	MPa	50-60
Tensile Modulus	GPa	2.8-3.3
Flexural Strength	MPa	105-125
Flexural Modulus	GPa	3.1-3.5
Elongation	%	1.7-2.5
Barcol Hardness, 934-1	-	40-50
Heat Distortion Temp	°C	70-80

\*1 : After Cure = 80°C × 2 hrs , 100°C × 2 hrs

## 6. Mechanical strength of laminating plate\*2

	Units	Results
Tensile Strength	Mpa	110.5
Tensile Modulus	Gpa	7.9
Flexural Strength	Mpa	220.5
Flexural Modulus	Gpa	8.5
Barcol Hardness, 934-1	-	53

\*2. #450 Chopped Strand Mat = 3plies  
 Glass Content = 32%  
 After Cure = 80°C × 2 hrs , 100°C × 2 hrs