

## POLYSTAR SR-825 HV SUPER CORROSION RESISTANT VINYL ESTER RESIN

**TYPE**: Unaccelerated and unwaxed Bisphenol A type vinyl ester resin.

**USES**: POLYSTAR SR-825HV is formulated for the production of  
Excellent Chemical Resistance and Heat Resistant.

### **FEATURES**

- Excellent Chemical Resistance
- Excellent Heat Resistance
- Extremely fast Wet out
- High Impact Strength
- Excellent in Acid and Alkali Resistance
- Long-term stability

### **TYPICAL PROPERTIES @25 °C**

#### **Uncured Resin <sup>\*1</sup>**

<i>Test item</i>	<i>Unit</i>	<i>Value</i>	<i>Remarks</i>
<i>Viscosity</i>	Poise	2.5 – 3.5	Brookfield LVF
<i>Acid Value</i>	-	Below 15	
<i>Volatile Monomer Content</i>	%	38 - 48	

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\*1. Properties reported in this bulletin are typical of those obtained in controlled laboratory tests and will vary in production conditions and adjustable to meet user's needs upon request

## Curing Property of Resin

<i>Test item</i>	<i>Unit</i>	<i>Value</i>	<i>Remarks</i>
<i>Gel Time(1)</i>	Min.	10 – 15	Promoter: PVN 0.5 PHR
<i>Gel Time(2)</i>	Min.	50 - 60	Promoter: P6O 0.5 PHR
<i>Gel Time(3)</i>	Min.	10 - 15	Promoter: P6O 0.25 PHR DMA 0.05PHR

※ Catalyst : 55% MEKPO 1.0phr at 25°C

## Physical Properties of Cured Resin <sup>\*2</sup>

<i>Test items</i>	<i>Unit</i>	<i>Value</i>	<i>Test method</i>
<i>Tensile strength</i>	Mpa	70-90	ASTM D-638
<i>Tensile Modulus</i>	Gpa	3.0-3.4	ASTM D-638
<i>Flexural strength</i>	Mpa	130-150	ASTM D-790
<i>Flexural modulus</i>	Gpa	3.0-4.0	ASTM D-790
<i>Elongation</i>	(%)	4.0-6.0	ASTM D-638
<i>Heat Distortion Temp</i>	°C	105-110	ASTM D-648
<i>Barcol hardness</i>	(#934-1)	40-45	ASTM D-2583

<sup>\*2</sup> 55% MEKPO : 1.0 PHR  
 PVN : 0.5 PHR  
 Post cure : 2 hrs at 100°C and 2 hrs at 120°C