

# NORSODYNE<sup>®</sup> H 13212 TAE

## Unsaturated polyester resin

Version : April 2015

### Appearance

Homogeneous pink liquid resin

### Main resin characteristics

Orthophthalic unsaturated polyester  
Thixotropic – Preaccelerated  
Low styrene emission

### Moulding information

Spray up

### Main applications

Industrial parts

### Shelf life and storage

- Store in the shade out of direct sunlight below 30°C in sealed containers
- The shelf-life will be reduced if the resin is exposed to higher temperatures
- Use within shelf life specified on the container.

For tanker deliveries the shelf-life is 3 months after delivery date

### Other possible process

Hand lay up

### Other possible applications

### Precautions for handling

Please find the current SDS on internet [www.ccpcomposites.com](http://www.ccpcomposites.com)

Characteristics, Methods and Conditions	Values (Average values)
<b>Liquid properties</b>	
-Specific gravity at 20 °C :	1.10 g/cm <sup>3</sup>
-Viscosity (dPa.s) : V25	Brookfield at 23°C
	M2V50 4.5 – 6.5
-Solid content (%) : PC53	56 - 60
-Reactivity :	
	Méthod : R151 (tube test)
	Test temperature : 23 °C
	Catalyst system : 1.5 % MEKP 50
	Gel time : 14 - 18 min
	Peak time : 27 - 37 min
	Peak temperature : 90 - 110 °C
<b>Mechanical properties</b> (cured resin non reinforced)	
-Specific gravity at 20 °C :	1.20 g/cm <sup>3</sup>
-Volumetric shrinkage (%) :	7
<b>Post cure (16hrs at 40 °C)</b>	
-Tensile ISO 527 (1999)	
-Tensile Modulus (MPa) :	3715
-Tensile strength (MPa) :	57
-Elongation at break (%) :	2.3
<b>-Flexural ISO 178 (2003)</b>	
-Flexural strength (MPa) :	98
-Flexural modulus (MPa) :	3630
<b>Thermomechanical properties</b> (cured resin non reinforced)	
-HDT ISO 75-2 A (1999) (°C):	58 (2hrs at 120°C)

As the resin includes a film-forming agent we recommend that the laminate should first be rubbed down before bonding or relaminating