

# NORSODYNE<sup>®</sup> H 13212 TAE

## Unsaturated polyester resin

Version : September 2015

### Appearance

Homogeneous pink liquid resin

Lloyd's Register Shipping Approved

WRAS Approved -- Water Regulations Advisory Scheme

### Main resin characteristics

Orthophthalic unsaturated polyester  
Thixotropic – Preaccelerated  
Low styrene emission

### Moulding information

Spray up

### Other possible process

Hand lay up

### Main applications

Industrial parts

### Other possible applications

### 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

### 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> <b>-Specific gravity at 20 °C :</b> <b>-Viscosity (dPa.s) : V25</b>  <b>-Solid content (%) : PC53</b> <b>-Reactivity :</b>	 1.10 g/cm <sup>3</sup> Brookfield at 23°C M2V50 4.5 – 6.5 56 - 60  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) <b>-Specific gravity at 20 °C :</b> <b>-Volumetric shrinkage (%) :</b> <b>Post cure (16hrs at 40 °C)</b> <b>-Tensile ISO 527 (1999)</b> -Tensile Modulus (MPa) : -Tensile strength (MPa) : -Elongation at break (%) :  <b>-Flexural ISO 178 (2003)</b> -Flexural strength (MPa) : -Flexural modulus (MPa) :	 1.20 g/cm <sup>3</sup> 7  3715 57 2.3  98 3630
<b>Thermomechanical properties</b> (cured resin non reinforced) <b>-HDT ISO 75-2 A (1999) (°C):</b>	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