

**NORSODYNE® H 13271 TAE**  
**Unsaturated polyester resin**

Version : december 2008

**CURED RESIN PROPERTIES NON REINFORCED**

(Average values)

Specific weight at 20°C	: 1.20 g/cm <sup>3</sup>
Mechanical properties	
Tensile ISO 527 :	
- Tensile strength	: 50 MPa
- Elongation at break	: 1.5 %
Flexural ISO 178 :	
- Flexural strength	: 90 MPa
- Flexural modulus	: 3800 MPa
Thermomechanical properties	
HDT ISO 75-2 A	: 65°C
Volumetric shrinkage	: 7 %

**APPEARANCE**

- Opaque bluish liquid resin.

**MAIN RESIN CHARACTERISTICS**

Orthophthalic unsaturated polyester.  
Thixotropic – Preaccelerated  
Low styrene emission  
LLOYD'S Register Shipping Approved.

**MOULDING INFORMATION**

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

**MAIN APPLICATION**

-Industrial parts.

**LIQUID RESIN PROPERTIES**

Specific weight at 20°C	: 1.10 g/cm <sup>3</sup>
Brookfield Viscosity RVT at 23°C	
Spindle n°2 at 50 rpm	: 4.5 - 7 dPa.s
Solid content	: 55 - 61 %
Reactivity :	
- Method	: R 151
- Test temperature	: 23°C
- Catalyst system	: 1.5 % MEKP 50
Test tube	
- Gel time	: 11 - 19 min
- Peak time	: 30 - 50 min
- Temperature at peak	: < 115°C

**DESIGNATION** (according to ISO 3672-1)  
ISO 3672-1 - UP,N,P1/V7R7**MARKING** (according to ISO 11469)  
>UP<**SHELF LIFE**

Use within shelf life specified on the container. Store in the shade out of direct sunlight below 25 °C Containers sealed

**SAFETY PRECAUTIONS FOR HANDLING AND STORAGE**

- Polyester solutions contain volatile and flammable monomers such as styrene (flash point : 32°C).  
- They are subject to the Highly Flammable Liquids and Liquid Petroleum Gases Regulations 1972.  
- All polyester resins should be handled and used in well ventilated, flame proof areas.  
- It is preferable to wear gloves and goggles to guard against any skin/eye irritation arising from the presence of styrene. Under no circumstances must accelerators be mixed with peroxide catalysts as it can cause explosions.

This data sheet was established according to NF T 50-063