

NORSODYNE® H 81269 TF Unsaturated polyester resin

Version : January 2009

APPEARANCE

- Charged cream liquid resin

MAIN RESIN CHARACTERISTICS

Resin unsaturated polyester charged without halogenous compounds and trioxyde antimoine

Fire classification : M1F1

MOULDING INFORMATION

- Hand lay up – Spray up - Casting
- The final fire classification may depend on the structure and the conditions of use, so the final classification of the prototype manufactured must be validated before any mass production is carried out.
- Any dilution of the resin (thinning with another resin, addition of styrene-acetone) might reduce the fire classification greatly.
- Fillers naturally sediment out and this will be appreciable during storage at a high temperature, so pay special attention to storage conditions and always resuspend fillers by mixing the resin before any application, otherwise the final fire classification may not be uniform

MAIN APPLICATIONS

- Industrial parts.

LIQUID RESIN PROPERTIES

- Density at 20°C : 1.39 g/cm³
- Brookfield viscosity RVT at 23°C
- M3V50 : 7.5 dPa.s
- Solid content : 74 %
- Reactivity :
- Methode : R 91
- Test temperature : 25°C
- Catalyst system : 1.2 % MEKP 50 %
: 0.15 Cobalt 6 %
- Resin quantity : 150 g
- Gel time : 20 min
- Peak time : 35 min
- Temperature at peak : 95 °C (+ ou – 10°C)

Properties of resine reinforced hardened resin with 20% glass (Average values)

Mechanical properties (Cure 120°C) **3 chechmates**

- Tensile ISO 527 :
- Tensile strength : 45 MPa
- Elongation at break : 1.15 %
- Flexural ISO 178 :
- Flexural strength : 115 MPa
- Flexural modulus : 6525 MPa

Thermomechanical properties

- Pure resin (Cure 120°C)**
- HDT : 130°C

DESIGNATION (according to ISO 3672-1)
ISO 3672-1 - UP,N6,O3,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 volatil 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

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