

UPEX 081355
Unsaturated polyester resin

Version : april 2009

APPAREANCE

Limpid ambercoloured liquid resin.

MAIN RESIN CHARACTERISTICS

DCPD unsaturated polyester resin
Orthophthalic (dicyclopentadiène)
Low viscosity – medium reactivity
Very good glass wet-out
LSE Low Styrene Emission
Reduced fibre print trough

MOULDING INFORMATION

- Injection - RTM

MAIN APPLICATIONS

- Industrial parts

LIQUID RESIN PROPERTIES

Specific weight at 20°C : 1.2 g/cm³
Viscosity at 23°C : 1.7 dPa.s
Solid content : 61 %
Reactivity :
- Methode : R 151
- Test temperature : 23°C
- Catalyst system : 1.5 % MEKP 50 %
- Resin quantity : 100 g
- Gel time : 20 min
- Peak time : 35 min
- Temperature at peak : 135 °C

CURED RESIN PROPERTIES NON REINFORCED

(Average values)

Mechanical properties

Specific weight at 20°C : 1.20 g/cm³
Tensile ISO 527 :
- Tensile strength : 45 MPa
- Elongation at break : 1.5 %
Flexural ISO 178 :
- Flexural strength : 80 MPa
- Flexural modulus : 3000 MPa
Thermomechanical properties
HDT ISO 75-2 A : 85°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 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 aeras.
- 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 peroxyde catalysts as it can cause explosions.

This data sheet was established according toNF T 50-063