

# POLYNT 4506 TA

## Unsaturated polyester resin

Version : February 2016

### Appearance

Homogeneous blue liquid resin

### Main resin characteristics

Isophthalic unsaturated polyester resin  
Pre-accelerated - Thixotropic

### Moulding information

Hand lay up – Spray up

### Other possible process

### Main applications

Skin Coat (ISO)

### 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

<b>Characteristics, Methods and Conditions</b>	<b>Values</b> (Average values)
<b>Liquid properties</b>	
-Specific weight at 20 °C :	1.10 g/cm <sup>3</sup>
- Viscosity (dPa.s) : V23	Brookfield at 23° C
	M2V50 6 - 8
-Solid content (%) : PC53	56 - 60
<b>-Reactivity :</b>	
	Méthod : R151 (tube test)
	Test temperature : 23°C
	Catalyst system : 1.5 % MEKP 50
	Gel time : 16 - 20 min
	Peak time : 35 - 45 min
	Peak temperature : 130 – 150°C
<b>Mechanical properties</b> (cured resin non reinforced)	
<b>Post cure (24 h/23°C + 2 h/100°C + 1h/100°C)</b>	
<b>-Tensile ISO 527 (2012)</b>	
-Tensile Modulus (MPa) :	3550
-Tensile strength (MPa) :	65
-Elongation at break (%) :	4.7
<b>-Flexural ISO 178 (2011)</b>	
-Flexural strength (MPa) :	150
-Flexural modulus (MPa) :	3040
<b>Thermomechanical properties</b> (cured resin non reinforced)	
<b>-HDT ISO 75-2 Ae (1999) (°C):</b>	63