



# ENYDYNE<sup>®</sup> I 69277 A

## Unsaturated polyester resin

Version : March 2013

### Appearance

Ambercoloured liquid limpid resin

### Main resin characteristics

DCPD Orthophthalic unsaturated polyester resin  
Low viscosity - Medium reactivity – Pre-accelerated  
Very good glass wet-out  
LSE low styrene emission - Reduced fibre print trough

### Moulding information

Injection

### Main applications

Industrial parts

### 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.

### Other possible process

RTM

### Other possible applications

### 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>	
-Specific weight at 20 °C :	1.12 g/cm <sup>3</sup>
-Viscosity (dPa.s) : V23	Brookfield at 23 °C
M1V50:	1.7 – 2.1
-Solid content (%) : PC53	62 - 66
-Reactivity :	
Method :	R 151 (Tube test)
Test temperature :	23 °C
Catalyst system :	1.5 % MEKP 50
Gel time :	17 - 23 mn
Peak time :	28 - 38 mn
Peak temperature :	125 - 145 °C
<b>Mechanical properties (cured resin non reinforced)</b>	
-Specific gravity at 20 °C :	1.20 g/cm <sup>3</sup>
<b>Post cure (16hrs at 40 °C and 2hrs at 90°C)</b>	
-Tensile ISO 527 (1999)	
-Tensile Modulus (MPa) :	4507
-Tensile strength (MPa) :	37.4
-Elongation at break (%) :	1.11
-Flexural ISO 178 (2003)	
-Flexural strength (MPa) :	66
-Flexural modulus (MPa) :	3656
<b>Thermomechanical properties (cured resin non reinforced)</b>	
-HDT ISO 75-2 A (1999) (°C):	92 (2hrs at 120°C)