

## ISOPHTHALIC RESIN

### Resin Characteristics

Isophthalic unsaturated polyester resin  
Medium reactivity – Medium viscosity

### Versions

Thixotropic (T)  
Preaccelerated (P)  
Blue Indicator (B)  
Low Styrene Emission (L)

### Molding Technique

Hand Lay-up  
Spray-up  
Filament winding

### End Products

Parts that will be exposed to mild chemical environment, storage tanks, boats, marine parts

### Remarks

Good chemical resistance  
Good compatibility with fiber  
Good elongation

### Liquid Properties

Viscosity <sup>1</sup>	450-650	cp
Solid Content	60-65	%
Acid Value	15-25	mgKOH/g
Gel Time <sup>2</sup>	10-20	minutes

<sup>1</sup> 25°C, sp4 50

<sup>2</sup> 25°C, 1ml 1% Co solution, 1ml Butanox M60 per 100g resin

### Mechanical Properties of Non Reinforced Clear Castings<sup>3</sup>

Tensile Strength	70	Mpa	ISO 527
Elongation at Break	3.5	%	ISO 527
Tensile Modulus	3100	Mpa	ISO 527
Flexural Strength	125	Mpa	ISO 178
Flexural Modulus	3200	Mpa	ISO 178
HDT	85	°C	ISO 75A
Hardness	40	Barcol	934-1

<sup>3</sup> Samples post cured 3 hours at 80°C and 1 hour at 100°C.

### Stability

The resin is stable for 6 months if stored in original packaging in a dry, well ventilated area away from direct sunlight. The storage temperature must not exceed 25°C.

### Packaging

Available in  
Bulk  
1000kg IBC  
220kg Drums  
18kg Cans

### Note

Please contact our technical staff to have more information on the chemical resistance data.