

## TECHNICAL DATA SHEET

Date of emission: 1/4/12  
Version: 1

# ISO 112

ISO 112 is an isophthalic unsaturated polyester resin type 1140 according to DIN 16946-2.

### Delivery specification of liquid resin at 25°C

Properties	Unità	Value	Test Method
Styrene Content	% w/w	39,0 ÷ 42,0	V5 - 2010
Viscosity	mPa*s	600 ÷ 800	V2 - 2010
Acid Number	mgKOH/g	15 max	ISO 2114
Stability (in the dark)	months	6	Internal studies

### Curing Specification of liquid resin at 25°C (catalysis 0,2g Co at 6% w/w and 100g of liquid resin)

Properties	Unità	Value	Test Method
Gel Time	minutes	5'00" ÷ 7'00"	V1 - 2010
Curing Time	minutes	5'00" ÷ 7'00"	V1 - 2010
Maximum Temperature	°C	200 ÷ 230	V1 - 2010

### Properties of cured unreinforced resin (24h at 23°C, 9h at 105°C)

Properties	Unità	Value	Test Method
Barcol Hardness at 25°C	Unit	45	ISO 59
Flexural Strenght	MPa*s	135	ISO178
Flexural Modulus	MPa*s	4050	ISO178
Tensile Strenght	MPa*s	68	ISO527
Tensile Modulus	MPa*s	4200	ISO527
Elongation at break	%	2,6	ISO527
Heat Deflection Temperature 1820 kPA	°C	103	ISO75
455 kPa	°C	111	ISO75
Tg	°C	121	DSC

*Data reported refer to medium value of tests performed in several trails and no warranty is given, whether implicit or explicit.*