

DISTITRON® 186

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Product type

Unsaturated polyester resin in styrene, Isophthalic

Appearance

Yellow - Transparent

Main resin characteristics

Clear, unaccelerated

Main applications

BMC and SMC manufacture, very good mechanical properties

Moulding informations

Hot press moulding

Shelf life and storage

Store in the shade, out of direct sunlight. Keep storage temperature below 25°C. Unseal container just before use. Shelf-life will be reduced reaching higher temperature.

Precaution for handling

Read carefully the Safety Data Sheet

Note

FEATURES OF THE LIQUID RESIN

<i>Properties</i>	<i>Test Method</i>	<i>Unit</i>	<i>Typical values</i>
Specific weight at 20°C		g/cm ³	1,10
Brookfield viscosity at 25°C, sp 3 rpm 20	MT-CU025V	mPa.s	2450 - 2850
Solid content	MT-CU001C	%	64 - 68
Reactivity	at 130°C + 1% TBPB		
Curing time	RS.03.G	seconds	160 - 200
Exothermic peak	RS.03.G	°C	220 - 260
Acidity	MT-CU001I	mgKOH/g	10 - 17
Shelf life at 23°C in the dark	MT-CU002S	months	6

PROPERTIES OF THE CURED UNREINFORCED RESIN

Curing cycle	16h at 70°C + 2h at 100°C + 1h at 100°C		
Tensile strength	ISO 527 (2012)	MPa	60
Tensile modulus	ISO 527 (2012)	MPa	3900
Elongation at break	ISO 527 (2012)	%	1,8
Flexural strength	ISO 178/B (2010)	MPa	120
Flexural modulus	ISO 178/B (2010)	MPa	3800
HDT	ISO 75 -2A (2013)	°C	113
Glass transition	ASTM E 1545 (2011)	°C	117
Barcol hardness at 25°C	ASTM D 2583 (2007)	units	46

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