

## DISTITRON® 451 ESX

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### Product type

Unsaturated polyester resin in styrene, Orthophthalic

### Appearance

Bluish - Dark - Opalescent

### Main resin characteristics

Good adhesion to PMMA, Low exothermic peak, Low styrene emission,  
Preaccelerated, Thixotropic, With catalyst indicator

### Main applications

Furnitures and sanitary

### Moulding informations

Hand lay up and Spray up,  
Mix with fillers and/or additives

### 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

As the resin includes a film-forming agent, we recommend that the laminate should first rubbed down before bonding or relaminating.,  
Read carefully the Safety Data Sheet,  
Stir the resin before use, without use air bubbles

### Note

## FEATURES OF THE LIQUID RESIN

Properties	Test Method	Unit	Typical values
Specific weight at 20°C		g/cm³	1,06
Brookfield viscosity at 25°C, sp 2 rpm 20	MT-CUT25V	mPa.s	230 - 330
Solid content	MT-CU001C	%	52 - 56
Reactivity	at 25°C + 1,5% MEKP50		
Gel time	RS.08.G	minutes	14 - 18
Delta	RS.08.G	minutes	11 - 15
Exothermic peak	RS.08.G	°C	120 - 150
Shelf life at 23°C in the dark	MT-CU002S	months	3

## PROPERTIES OF THE CURED UNREINFORCED RESIN

Curing cycle	24h at 23°C + 2h at 100°C + 1h at 100°C		
Tensile strength	ISO 527 (2012)	MPa	30
Tensile modulus	ISO 527 (2012)	MPa	1700
Elongation at break	ISO 527 (2012)	%	7,0
HDT	ISO 75 -2A (2013)	°C	45
Glass transition	ASTM E 1545 (2011)	°C	54

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