

# ESI Resin GP Med DT

## Euroresins Standard Industrial Resin

euro  
resins

BUILD YOUR FUTURE WITH US

### Chemical/physical nature

ESI Resin GP Med DT is a low viscous, pre-accelerated, promoted, thixotropic, medium reactive DCPD polyester resin. ESI Resin GP Med DT does not contain monomeric amines.

### Major applications

ESI Resin GP Med DT has been especially developed for hand lay-up and spray-up applications to produce high performance constructional laminates.

### Principal properties

ESI Resin GP Med DT combines good mechanical properties with optimal processability. This resin shows very good fibre wetting and impregnation properties. ESI Resin GP Med DT can be used with powder and emulsion bound mats.

### Product specifications upon delivery

Property	Value	Unit
Appearance	Hazy	-
Viscosity, Physica, 20 s-1, 23°C	300-590	m.Pas
Viscosity, Physica, 250 s-1, 23°C	200-360	m.Pas
Solid content, IR	57-65	%
Gel time from 25 to 35°C	14-30	Min

### Curing conditions

Cured with 1% Curox M-312 (United Initiators).  
Post-cured 24 h at RT followed by 24 hrs at 70°C.

### Properties of the resin (typical values)

Property	Value	Unit
Density, 20°C	Appr. 1100	kg/m <sup>3</sup>
Flash point	Appr. 33	°C
Stability, no init., dark, 25°C	6	Mon

### Properties of cast unfilled resin (typical values)

Property	Value	Unit
Tensile strength	70	MPa
Tensile E-modulus	3.7	GPA
Elongation at break	2.2	%
Flexural strength	120	MPa
Flexural E-modulus	3.7	GPA
Elongation in flex	2.6	%
Impact res. - unnotched sp.	15	kJ/m <sup>2</sup>
Heat deflection temp. (HDT)	85	°C
Glass transition temp. (Tg)	120	°C

### Processing

It is recommended to cure at temperatures between 15 and 30°C with medium reactivity MEKP. In order to have longer gel time at summer conditions it is recommended to use low reactivity MEKP.

### Guidelines before use

The resin should be conditioned at 15°C minimum before use to obtain a sufficient cure when MEKP is used as a curing system. Stir the resin before use.

### Storage guidelines

The resin should be stored indoors in the original, unopened and undamaged packaging in a dry place at temperatures between 5°C and 25°C. Shelf life is reduced at higher temperatures and the properties of the resin might change during storage. The shelf life of styrene containing unsaturated polyesters will be significantly reduced when exposed to light. Store in dark and in 100% light tight containers only. From DCPD resins it is known that skin formation occurs when exposed to air ventilation or replacement from the original packaging.

### Material Safety

A Material Safety Data Sheet of this product is available on request.