Technical Date Sheet

ES – 2590 el fiber type polyester

Description and Basic Properties

ES - 2590 - EL is an orthophtalic based unsaturated polyester resin that is used for CTP applications with medium-low reactivity. It wets glass fiber very well and it is specially improved for the hand lay-up process. While stiffening it does not warm up too much owing to its low peak exotherm. In this manner it does not cause any deformation in moulds. With its high mechanical properties, it enables to produce high resistant materials.

Properties of Liquid Product

Property	Method	Unit	Deviation	Value
Appearance	-	-	-	Clear-Liquid
Density	ISO 1675	g/cm3	± 0.1	1.13
Viscosity	ISO 2555	cp	± 50	450
Monomer Content	-	%	± 2	37
Thixotropy	-	-	-	Optional
Acid Number	ISO 2114	mgKOH/g	± 5	25
Gel Time	2535	Minutes	± 1	7
Shelf Life	-	Months	-	6

- Viscosity is measured at 25 °C, 10 rpm with spindle 3
- Gel time is measured at 25 °C, by adding 0.25 mL Cobalt Octoate (% 6) 2 mL MEK-peroxide for 100 g sample

Properties of Pure Cured Resin

Test	Method	Unit	Deviation	Value
Flexural Strength	ISO 178	MPa	± % 10	150
Flexural Modulus	ISO 178	MPa	± % 10	2600
Elongation at Break	ISO 178	%	± % 10	3.5
Tensile Strength	ISO 527	MPa	± % 10	75
Modulus of Elasticity in Tensile	ISO 527	MPa	± % 10	4000
Elongation at Break	ISO 527	%	± % 10	2.5
Izod Impact Strength	ISO 180	Kj / m2	± % 10	11
Barkol Hardness	ASTM –D 2583	Barkol	± % 10	45
Heat Deflection Temperature	ISO 75 - A	°C	± % 10	65

Storage Guidelines

Keep container tightly closed in a cool dry place and keep away from direct sunlight. Products with same charge numbers and production dates must be stored together. Pay attention to the handling life. Don´t hoard more than 3 packages one on top of each other.

These information's are prepared by regarding general conditions. Rozachim AD is not responsible for any problem which due to lack of information.