

# POLYESTER RESIN ES 1090

Polyester

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Version: 1/2015

TDS EU/EN

## Technical Data Sheet

### ES – 1090 – DK Solid Surface Casting Type Polyester

#### Description and Basic Properties

ES – 1090 – DK Solid Surface Casting Type Polyester is an ISO / NPG based and acrylic modified polyester resin. It has excellent resistance to the external conditions with its high reactivity. When it is filled with ATH and granular particles naturally looking granite products are obtained. By courtesy of its high performance, the materials such as main interior decoration products, kitchen-fast food counters etc, can be produced allowing the casting without gelcoat.

#### Properties of Liquid Product

Property	Method	Unit	Deviation	Value
Appearance	-	-	-	Clear-Liquid
Density	ISO 1675	g/cm <sup>3</sup>	± 0.1	1.15
Viscosity	ISO 2555	cp	± 50	400
Monomer Content	-	%	± 2	38
Thixotropy	-	-	-	Not Applicable
Acid Number	ISO 2114	mgKOH/g	± 5	18
Gel Time	2535	minutes	± 1	12
Shelf Life	-	months	-	4

- Viscosity is measured at 25 °C, 10 rpm with spindle 3
- Gel time is measured at 25 °C, by adding 0.5 mL Cobalt Octoate (% 1) 1 mL MEK-peroxide for 100 g sample.

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### Properties of Pure Cured Resin

Test	Method	Unit	Deviation	Value
Flexural Strength	ISO 178	MPa	± % 10	120
Flexural Modulus	ISO 178	MPa	± % 10	3500
Elongation at Break	ISO 178	%	± % 10	5
Tensile Strength	ISO 527	MPa	± % 10	67
Modulus of Elasticity in Tensile	ISO 527	MPa	± % 10	3000
Elongation at Break	ISO 527	%	± % 10	4
Izod Impact Strength	ISO 180	Kj / m <sup>2</sup>	± % 10	9
Barkol Hardness	ASTM –D 2583	Barkol	± % 10	45
Heat Deflection Temperature	ISO 75 - A	°C	± % 10	75

### 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.

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