

## Description and Basic Properties

ES- 5907 has high resistance to chemicals scratch, impact and thermal shocks. It doesn't show any cracking and fatigue on heat differences and it's flexible. It can be used in every composite application, where the atmospheric and hydrolytic resistance is important besides chemical and mechanical resistance. This gelcoat is compatible with colour pigment pastes. It gives very light colored and non-yellowing, nonmatting or fading products in atmospheric conditions for very long use time. It's used for producing kitchen counter-tops, sinks, wash basins, chemical tanks and crafts.

### Chemical Structure

Acid : ISO / NPG  
Acceleration : Yes  
Modification : Acrylic

## Properties of Liquid Form

	Unit	Value	Method
		Spray Type	
<b>Viscosity<sup>1</sup></b>	cp	7300 ± 300 (10 rpm)	ISO 2555
<b>Monomer Content</b>	%	37 ± 3	ISO 3251
<b>Density</b>	g/cm <sup>3</sup>	1.14 ± 0.02	ISO 1675
<b>Gel Time<sup>2</sup></b>	min	12 ± 2	ISO 2535
<b>Shelf Life</b>	month	6	-
<sup>1</sup> Brookfield DV II, 25°C, 4 spd for spray type <sup>2</sup> 25°C, 1.0 mL Turperox HQ for 100 g sample			

## Mechanical Properties of Cured Resin

All the information provided in this data sheet is believed to be true and accurate but no guarantee and warranty is provided for mechanical & liquid composition. ESKİM A.Ş. does not take responsibility for any inadequacies that may occur due to improper storage, handling and / or application.

	Unit	Value <sup>1</sup>	Method
<b>Tensile Strength</b>	MPa	70 ± 5	ASTM D638
<b>Strain at Fracture</b>	%	4.2 ± 0.4	ASTM D638
<b>Elongation at Break</b>	%	2.5 ± 0.2	ASTM D638
<b>Flexual Strength</b>	MPa	120 ± 10	ASTM D790
<b>Heat Deflection Temperature (HDT)<sup>2</sup></b>	° C	90 ± 5	ISO 75 A
<b>Barcol Hardness</b>	Barcol	45 ± 5	ASTM D2583
<sup>1</sup> For fully cured resin, curing Schedule – 24 hrs at 20° C, 4 hrs at 90° C <sup>2</sup> Curing Schedule – 24 hrs at 20° C, 4 hrs at 90° C, 3 hrs at 120° C			

## Storage Conditions

It should be stored in a dry, clean and cool place (15-25 ° C) in closed packages. The shelf life of the product is valid for this temperature range and it should not be forgotten that it will shorten at high temperatures. Products with the same charge number and date must be stored together.

Another factor that affects the life of unsaturated polyester resins containing styrene is sunlight. Styrene must be polymerized in the sunlight and products that are considered to shorten the life of the product should be avoided from direct sunlight contact.

## More Information

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