

Description and Basic Properties

ES- 5807 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
		Hand Type	
Viscosity¹	cp	26000 ± 2000 (5 rpm)	ISO 2555
		5000 ± 500 (50 rpm)	
Monomer Content	%	33 ± 3	ISO 3251
Density	g/cm ³	1.13 ± 0.02	ISO 1675
Gel Time²	min	12 ± 2	ISO 2535
Shelf Life	month	6	-
¹ Brookfield DV II, 25°C, 5 spd for hand type ² 25°C, 1.0 mL Turperox HQ for 100 g sample			

Mechanical Properties of Cured Resin

	Unit	Value ¹	Method
Tensile Strength	MPa	70 ± 5	ASTM D638
Strain at Fracture	%	4.2 ± 0.4	ASTM D638
Elongation at Break	%	2.5 ± 0.2	ASTM D638
Flexural Strength	MPa	120 ± 10	ASTM D790
Heat Deflection Temperature (HDT)²	° C	90 ± 5	ISO 75 A
Barcol Hardness	Barcol	45 ± 5	ASTM D2583

¹For fully cured resin, curing Schedule – 24 hrs at 20° C, 4 hrs at 90° C
²Curing 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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