

Description and Basic Properties

ES-5911 is an orthophthalic based product used in the applications that there is no need corrosion and water resistance. This gelcoat is compatible with colour pigment pastes. It can be safely used in the production of some kind of polyester materials such as sinks, bathtubs, polyester marbles, water storages, roof and facade coatings.

Chemical Structure
Acid : Orthophthalic Acceleration : Yes

Properties of Liquid Form

	Unit	Value	Method
		Spray Type	
Viscosity¹	cp	7500 ± 500 (5 rpm)	ISO 2555
		1900 ± 300 (50 rpm)	
Monomer Content	%	30 ± 5	ISO 3251
Density	g/cm ³	1.30 ± 0.1	ISO 1675
Gel Time²	min	10 ± 2	ISO 2535
Shelf Life	month	6	-
¹ Brookfield DV II, 25° C, 4 spd for spray type ² 25° C, 1.0 ml MEK-P (Butanox M60) for 100 g sample			

Mechanical Properties of Cured Resin

	Unit	Value ¹	Method
Tensile Strength	MPa	65 ± 6	ASTM D638
Tensile E-Modulus	GPa	3.0 ± 0.3	ASTM D638
Strain at Fracture	%	8.5 ± 0.8	ASTM D638
Elongation at Break	%	7.0 ± 0.7	ASTM D638
Flexual Strength	MPa	120 ± 10	ASTM D790
Flexual E-Modulus	GPa	2.7 ± 0.3	ASTM D790
Heat Deflection Temperature (HDT)²	° C	60 ± 5	ISO 75 A
Barcol Hardness	Barcol	40 ± 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 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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