

ES-2596

DCPD BASED GENERAL PURPOSE POLYESTER

DESCRIPTION AND BASIC PROPERTIES

ES-2596 is a DCPD based, medium reactivity unsaturated polyester resin. It can be used for FRP applications. Its mechanical properties and resistance to weather is very good. It is used for FRP applications and the production of corrugated sheets, modular cabins, boats, tanks, vans, water tank, shower cabin, car bumper, panel building structures, etc.

APPLICATION METHODS	CHEMICAL STRUCTURE
Hand lay-up Spray-up	Acid : DCPD Acceleration: No Reactivity: Medium

PROPERTIES OF LIQUID FORM

	UNIT	VALUE	METHOD
Appearance		Clear, yellowish	
Viscosity ¹	cp	450±50	ISO 2555
Monomer Content	%	34 ± 2	ISO 3251
Density	g/cm ³	1.12±0.02	ISO 1675
Acid Number	mg KOH/g	10 ± 3	ISO 2114
Gel Time ²	min	8 ± 2	ISO 2535
Shelf Life	month	6	-

¹Brookfield DV II, 25°C, 3 spd, 10 rpm
²25°C 0.25 mL Cobalt Octoate (6 % con.) and 2mL MEK-P (Butanox M60) to 100g sample

MECHANICAL PROPERTIES OF CURED RESIN

	UNIT	VALUE ¹	METHOD
Tensile Strength	MPa	65 ± 6	ASTM D638
Tensile E-Modulus	GPa	4.8 ± 0.4	ASTM D638
Strain at Fracture	%	2.5 ± 0.2	ASTM D638
Elongation At Break	%	1.3 ± 0.3	ASTM D638
Flexural Strength	MPa	90 ± 10	ASTM D790
Flexural E-Modulus	GPa	3.8 ± 0.3	ASTM D790
Heat Deflection Temperature (HDT) ²	°C	68 ± 5	ISO 75 A
Impact Strength	Kj/m ²	9.6 ± 2	ISO 180

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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