

FIBER TYPE DCPD BASED THIXOTROPIC POLYESTER LSE

PRODUCT TECHNICAL DATA SHEET

Description and Basic Properties

ES-2597 is a Lloyd's Register approved pre-accelerated, ortho-DCPD based unsaturated tixothropic polyester resin. It has a low styrene content compared to conventional resins. GRP applications are used. Because of the low deformation and thixotropy when it is applied to vertical surfaces there will be no flowing and hanging and provides homogenous final product. It is used in automotive sector, swimming pool applications, production of tractor and heavy-duty vehicle cabins also it is optimized for marine applications such as yatch, boats and catamarans.

Application Methods	Chemical Structure	
Hand lay-up	Acid : Ortho-DCPD	
Spray-up	Acceleration : Yes	

Properties of Liquid Form

	Unit	Value	Method
Appearance	-	Cloudy, purplish	-
Viscosity ¹	ср	1500 ± 300 (5 rpm)	ISO 2555
		450 ± 50 (50 rpm)	130 2333
Tix Index	-	3-3,5	-
Monomer Content	%	40 ± 3	ISO 3251
Density	g/cm³	1.12 ± 0.02	ISO 1675
Gel Time ²	min	25 ± 5	ISO 584
Cure Time ²	min	10 ± 5	ISO 584
Peak Exotherm ²	° C	180 ± 10	ISO 584
Shelf Life	month	3	-

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. ESKIM A.S. does not take responsibility for any inade that way occur due to improper storage, handling and / or application.

Scanned with

CS CamScanner

cs CamScanner d



FIBER TYPE DCPD BASED THIXOTROPIC POLYESTER LSE

PRODUCT TECHNICAL DATA SHEET

¹Brookfield DV II, 25° C, 4 spd ²25° C, 1.5 ml MEK-P (Butanox M50) for 100 g sample

Mechanical Properties of Cured Resin

	Unit	Value ¹	Method
Tensile Strength	MPa	56 ± 6	ASTM D638
Tensile E- Modulus	GPa	2.8 ± 0.4	ASTM D638
Elongation at Break	%	3.3 ± 0.3	ASTM D638
Flexual Strength	МРа	100 ± 10	ASTM D790
Flexual E- Modulus	GPa	3.0 ± 0.3	ASTM D790
Heat Deflection Temperature (HDT)	°C	65 ± 5	ISO 75 A

For fully cured resin, curing Schedule – 24 hrs at 20° C, 16 hrs at 40° C

Storage Conditions

It should be stored in a dry, clean and cool place (15-25 $^{\circ}$ 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

ESKİM KİMYA

75.Yıl Osb Mahallesi 6. Cad. No:2 26110 ESKİŞEHİR

TEL:0(222) 236 01 90 (PBX) FAKS: 0(222) 236 01 87

http://www.eskim.com.tr/

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. ESKIM A.S. does not take responsibility for any inade that way occur due to improper storage, handling and / or application.