

ES – 1025 TIX PREACCELERATED THIXOTROPIC DCPD/VINYL ESTER HYBRID RESIN PRODUCT TECHNICAL DATA SHEET

Description and Basic Properties

ES-1025 TIX DCPD/Vinyl ester hybrid thixotropic resin is a medium-high reactive resin. It is used in the production of equipments that requires high mechanical strength. As well, it is advantageous with respect to unsaturated polyester resin in the situation of being resistant to high corrosion even in high temperatures. Available with cobalt, without cobalt and low styrene emission.

Application Methods	Chemical Structure
Hand lay-up Spray-up	Acid : DCPD/VE Reactivity : Medium-High Acceleration : Yes

Properties of Liquid Form

	Unit	Value	Method		
Appearance	-	Cloudy, Greenish	-		
Viscosity ¹	ср	2400 ± 100 (5 rpm)	ISO 2555		
		800 ± 100 (50 rpm)			
Monomer Content	%	44 ± 3	ISO 3251		
Density	g/cm ³	1.07 ± 0.02	ISO 1675		
Gel Time ²	min	15 ± 5	ISO 584		
Peak Exotherm ²	°C	190 ± 10	ISO 584		
Shelf Life	month	3	-		
¹ Brookfield DV II, 25° C, 4 spd ² 25° C, 1.5 ml MEK-P (Butanox M50) for 100 g sample					

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 inadequacies that way occur due to improper storage, handling and / or application.



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Mechanical Properties of Cured Resin

	Unit	Value ¹	Method		
Tensile Strength	МРа	65 ± 5	ASTM D638		
Tensile E- Modulus	GPa	3.6 ± 0.4	ASTM D638		
Strain at Fracture	%	4.7 ± 0.2	ASTM D638		
Elongation at Break	%	2.4 ± 0.3	ASTM D638		
Flexual Strenght	MPa	130 ± 10	ASTM D790		
Flexural E- Modulus	GPa	3.1 ± 0.3	ASTM D790		
Heat Deflection Temperature (HDT) ²	°C	105 ± 5	ISO 75 A		
Impact Strenght	Kj/m²	10 ± 2	ISO 180		
¹ For fully cured resin, curing Schedule – 24 hrs at 20° C, 4 hrs at 90° C ² 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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