

Description and Basic Properties

ES-2620 TIX LSE is an isophthalic based unsaturated thixotropic polyester resin. 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 can be used in the production of the materials that requires high temperature and chemical resistance such as tubes and tanks and in the production of equipments that serves the purposes of moving, storing and handling food stuffs. Its fiber wetting features are well developed Available with cobalt, with cobalt, without cobalt and low styrene emission.

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

Properties of Liquid Form

	Unit	Value	Method
Appearance	-	Cloudy, purplish	-
Viscosity¹	cp	2200 ± 200 (5 rpm)	ISO 2555
		800 ± 200 (50 rpm)	
Monomer Content	%	40 ± 3	ISO 3251
Density	g/cm ³	1.10 ± 0.02	ISO 1675
Gel Time²	min	11 ± 1	ISO 584
Peak Exotherm²	° C	190 ± 10	ISO 584
Shelf Life	month	3	-
¹ Brookfield DV II, 25° C, 4 spd ² 25° C, 2.0 ml MEK-P (Butanox M60) for 100 g sample			

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Mechanical Properties of Cured Resin

	Unit	Value ¹	Method
Tensile Strength	MPa	72 ± 7	ASTM D638
Tensile E-Modulus	GPa	3.5 ± 0.3	ASTM D638
Elongation at Break	%	3.5 ± 0.3	ASTM D638
Flexual Strength	MPa	135 ± 10	ASTM D790
Flexual E-Modulus	GPa	3.6 ± 0.3	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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