

TECHNICAL DATA SHEET (TDS)

First Release Date: 01.12.2021 Rev. No and date: 00/-

İLKESTER® P-192 TA**01 PRODUCT DESCRIPTION**

Orto phthalic based, general purpose thixotropic, pre-accelerated unsaturated polyester resin

02 CHARACTERISTICS

Fiber glass wetting property is very good

Due to thixotropic characteristics, It gives some typical advantages such as there is no flowing during application on vertical surface and to obtain the same thickness and smoothness of composites everywhere.

03 FIELD of APPLICATIONS

- Automotive,
- Sea vehicle,
- Modular cabinet,
- Water tank,
- Decorative FRP furniture,
- Sanitary materials,
- Construction materials

04 METHODS OF USE

Hand lay-up, filament winding, cold press.

05 PACKING DETAILS

Packing Form	Quantity
IBC	1100 kg
Drum	230 kg
Tin	18 kg

06 SHELF LIFE

Shelf life is 6 months from date of production at proper storage conditions.

07 STORAGE CONDITIONS

- Must be kept in original packing at 20 °C maximum temperature in dark and dry place, closed tightly.
- Avoid exposure to direct sunlight.
- Polyester is flammable and must be kept away from open flames.

08 SAFETY DETAILS

The related MSDSs can be requested from our company.

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İLKESTER® P-192 TA**09 TECHNICAL PROPERTIES**

PROPERTIES AS SUPPLIED			
Analysis Type	Unit	Test Method	Value
Density, 20°C	g/cm ³	ISO 1675	1.11 – 1.12
Viscosity (20°C) Brookfield RVT, 20 rpm #2	cps	ISO 2555	500 – 1000
Styrene content	%	ISO 3251	38 – 40
Thixotropic index		ISO 2555	2 – 3
Acid value	mgKOH/g	ISO 2114	18 – 25
Gelation time	minute	İLKALEM TL-06	15 - 25 (*)
Exothermic peak	°C	İLKALEM TL-06	Max. 200 (*)

PROPERTIES OF CURED RESIN (**)			
Pure Resin			
Analysis Type	Unit	Test Method	Value
Tensile strength	MPa	ISO 527	55 – 65
Tensile elongation	%	ISO 527	1 – 2
Tensile modulus	MPa	ISO 527	4000 – 5000
Flexural strength	MPa	ISO 178	140 – 150
Flexural elongation	%	ISO 178	3 – 4
Flexural modulus	MPa	ISO 178	4000 – 5000
Hardness (GYZJ 934-1)		DIN EN 59	40 – 42
Heat distortion temperature	°C	ISO 75	72 – 75
Water absorption	mg	ISO 62	36 – 38
(*) : %1 MEK-P (Butanox M-60) Polyester temperature : 20°C Room temperature : 25°C (**):Tests applied as polyester following post cure application.			

10 FURTHER DETAILS

For further details regarding our products you can call up our phone numbers +90 212 217 55 75 and +90 216 593 13 16.

11 IMPORTANT NOTE

No responsibility can be assumed by İLKALEM TİCARET VE SANAYİ A.Ş. for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from hazards inherent in the nature of the product.

12 REVISION NUMBER AND JUSTIFICATION

N/A