



# TECHNICAL DATA SHEET

Manufactures by : WESTERS INDUSTRIES, PT

Jl. Industri Selatan 10 Blok EE No. 11B Jababeka Industrial District Cikarang - Indonesia  
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### UPS Resin 157

Rev. : 2  
Date : April 19, 2022

**UPS Resin 157** are specially suitable for the manufacture of FRP products by hand lay up and spray up molding.

**UPS Resin 157** are widely used as structural materials for leisure boat, fishing boat, sanitary ware, bath tub, building materials, water storage FRP tanks and other FRP products.

**UPS Resin 157** are designed particularly for hand lay up and spray up molding in hot regions. They are excellent in workability, impregnation into glass fiber and curing characteristics.

**UPS Resin 157** Series have the following types :

	Quick curing type	Thixotropic type	Pre-accelerated type	Wax type	Non-wax type
157 QT-EX*	√	√		√	
157 QTN-EX*	√	√			√
157 BQT-EX	√	√	√	√	
157 BT-EX**		√	√	√	
157 BQTN-EX	√	√	√		√
1571***	√	√	√		√
157 BQTN-EXJ	√	√	√		√
751 BQT****	√	√	√		√

#### PROPERTIES:

- Specific gravity (25°C) 1.10 ± 0.02
- Viscosity (Poise, at 25°C) 4.5 – 5.0
- Thixotropic Index more than 1.5
- \*Gel time (minutes, at 30°C) 20 – 30
- \*Curing condition + MEKPO = 1 part
- Storage life at 25°C in the dark (months) less than 6
- Flash Point range, °C 26 - 37

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Note:

- \* 0.3 part Co-Naphth 6% per 100 parts resin is to be added to UPS Resin 157.
- \* MEKPO (55% solution) is to be used as catalyst.
- \*\* UPS Resin 157 has gel time = 30 – 40 minutes.
- \*\* UPS Resin 157 has viscosity = 2.5 – 3.0 Poise/25°C.
- \*\* UPS Resin 157 has viscosity = 7.0 – 9.0 Poise/25°C.

### PROPERTIES OF CAST-CURED RESIN :

Item	Unit	Typical Value	Note
Specific gravity	-	1.114	25°C
Hardness	-	40	Barcol GYZJ 934-1
Heat Distortion Temperature	°C	65	
Water Absorbtion (room temp.)	%	0.188	24 hours
	%	0305	7 days
Flexural strength	kg/mm <sup>2</sup>	9.4	
Flexural modulus	kg/mm <sup>2</sup>	370	
Tensile strength	kg/mm <sup>2</sup>	5.5	
Tensile modulus	kg/mm <sup>2</sup>	325	
Elongation	%	2.5	
Volume shrinkage on cure	%	6.3	25°C

### PHYSICAL PROPERTIES OF LAMINATE :

Item	Unit	Typical Value	Test Method
Barcol hardness	GYZJ 934-1	51	JIS K-6919
Water absorbtion	%	0.25	JIS K-6911
Tensile strength	kg/mm <sup>2</sup>	10.5	JIS K-7113
Tensile modulus	kg/mm <sup>2</sup>	860	JIS K-7113
Elongation	%	-	JIS K-7113
Flexural strength	kg/mm <sup>2</sup>	17.5	JIS K-7203
Flexural modulus	kg/mm <sup>2</sup>	960	JIS K-7203
Heat distortion temperature	°C	-	ASTM D 648-56
Glass content	%	31	JIS K-6919 (glass mat)

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