

Unsaturated Polyester Resin USP-2019ML



Product Description

Unsaturated polyester resin based on **Ortophthalic**

Features

Good mechanical properties Suitable HDT
Good elongation at break in tension

Application

Marine vessels and boats Casting decorative parts and accessories
Manufacturing pipes Suitable for corrugated sheets and flat panels
Artificial stone

Typical Properties of Liquid Resin

Styrene content (%)	34-36	ASTM D1259-06
Viscosity (mPas)	400-600	ASTM D2196
Acid value (mg KOH/g)	Max. 30	ASTM D1639-90
Color (Gardner)	Max.3	ASTM D1544-04
Density @ 25°C (g/cm ³)	1.08	ASTM D1298
Stability @ 25°C	6 months	

Curing Properties

100 g resin + 0.1 g Co 10% + 1.5 g MEKP 50% @ 25°C:		
Gel time	15-20 min	ASTM D2471
Peak Temperature	150-170 °C	"

Physical Properties of Cured Resin

Tensile Strength (MPa)	Min. 50	ASTM D790
Tensile Modulus (MPa)	455	ASTM D790
Flexural Strength (MPa)	Min. 85	ASTM D790
Flexural Modulus (MPa)	2410	ASTM D790
HDT	55±5 °C	ASTM D648
Water Absorption	Max. 0.3%	ASTM D570
Hardness (Barcole)	Min. 35	ASTM D2583

Package & Storage details

Package Capacities	200 kg drum
Shelf Life	6 months
Storing Area Conditions	The product should be kept in dry and cool condition away from sources of heat, spark and ignition. The product should not be unsealed unless for consumption.

Remark

Never mix peroxide and accelerator.

Health and safety

Avoid skin and eye contact by wearing overalls, gloves, goggles and mask
Use the resin under well ventilated condition

SHIMI POLYMER TABAN Company

Tel: 028-33297492-5, Fax: 028-33297491

Production: Alborz Industry State, Qazvin