

POLYLITE

PC-212

Ortho-Phthalic, non air-dry type
For FRP products by hand lay-up / spray-up
Lloyd's Register of Shipping approval

Rev.0/2012

DESCRIPTION :

POLYLITE PC-212 is an Ortho-PA, low viscous, thixotropic, prepromoted, non air-dry type unsaturated polyester resin. Good wetting to glass fiber and fast cure.

APPLICATIONS :

POLYLITE PC-212 can be laminated on incline and vertical surface. It is a good adhesion to laminate without sanding work and designed for the FRP products by the hand lay-up or spray up molding with good workability and good mechanical properties eg. boat hull, water tank cooling tower, bath tub, etc.

POLYLITE PC-212 are manufactured under the approval from Lloyd's Register of Shipping.

PHYSICAL PROPERTIES OF CURED RESIN WITHOUT REINFORCEMENT :

Specific gravity	ASTM-D-792	1.21
H ₂ O distortion temp.	ASTM-D-684	78 °C
Barcol hardness	ASTM-D-2583	43 J-934-1
Water absorption (24 hrs.)	ASTM-D-570	0.10 %
Flexural strength	ASTM-D-790	12.0 kgf./mm ²
Flexural modulus	ASTM-D-790	410 kgf./mm ²
Tensile strength	ASTM-D-638	6.8 kgf./mm ²
Tensile modulus	ASTM-D-638	470 kgf./mm ²
Elongation	ASTM-D-638	2.7 %
Compressive strength	ASTM-D-695	14.0 kgf./mm ²
Charpy impact strength	JIS-K-6911	2.1 kgf.cm/cm ²

*Curing condition : MEKPO (Butanox M-60) = 1.0 % and post cured at 110° C / 2 hrs.

NOTE :

CHARACTERISTICS :

SPECIFICATION :

Appearance	:	Turbid pink
Viscosity (Ps., 25° C)	:	2.5 - 4.0
Thixotropic index (25° C)	:	1.5 - 3.0
*Gel time (min., 25° C)	:	20 - 40

*POLYLITE PC-212 = 50.0 g.

MEKPO (Butanox M-60) = 0.5 g.

PACKAGING :

220 kg. in 200 L. white steel drum

STABILITY :

3 months. Indoor, temperature should not exceed 25° C

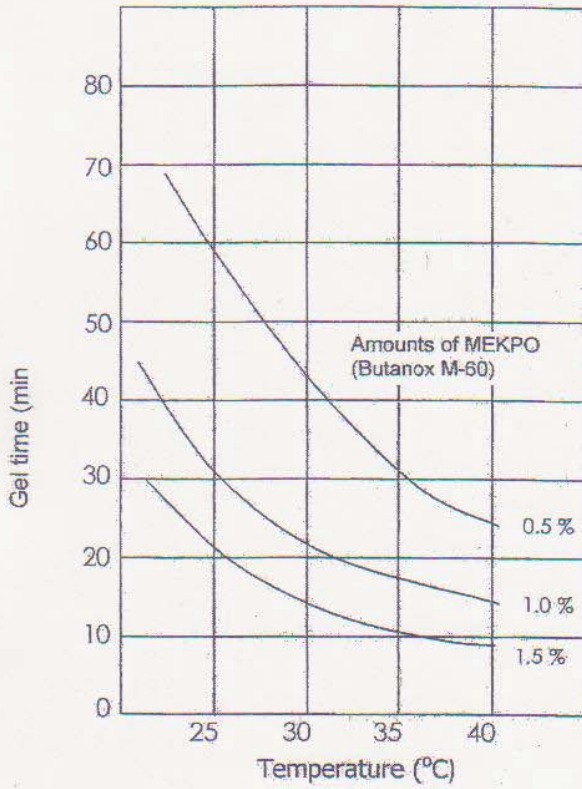
PHYSICAL PROPERTIES OF FRP LAMINATED

Specific gravity	ASTM-D-792	1.45
Barcol hardness	ASTM-D-2583	45 J-934-1
Water absorption (24 hrs.)	ASTM-D-570	0.23 %
Flexural strength	ASTM-D-790	20.8 kgf./mm ²
Flexural modulus	ASTM-D-790	900 kgf./mm ²
Tensile strength	ASTM-D-638	11.6 kgf./mm ²
Tensile modulus	ASTM-D-638	950 kgf./mm ²

*Curing condition : MEKPO (Butanox M-60) = 1.0%, FRP sheet laminate by using chopped strand mat 450 g/m² 3 plies glass content 30% and post cured at 110° C / 2 hrs.

READ THE MATERIAL SAFETY DATA SHEET
BEFORE HANDLING, STORING OR USING THIS

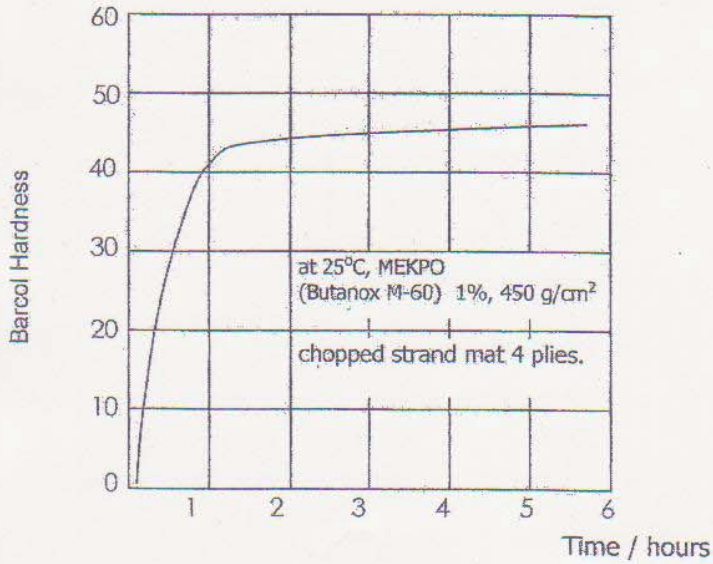
GEL TIME :



CAUTION :

POLYLITE PC-212 must be kept away from open flames and direct exposure to sunlight. It is recommended that the storage temperature should not exceed 25°C. In case of skin contact, wash thoroughly with soap and water, In case of eye contact, flush promptly with copious amounts of water and consult a physician.

HARDNESS : (After Gel)



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