



POLYLITE PC-212

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

Rev. 0/2012

DESCRIPTION:

POLYLITE PC-212 is an Ortho-PA, low viscous, thixotropic, repromoted, 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
Host distortion temp.	ASTM-D-684	78
Barcol hardness	ASTM-D-2583	43 3
	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	27 %
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 110⁰C/ 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 MO)	=	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

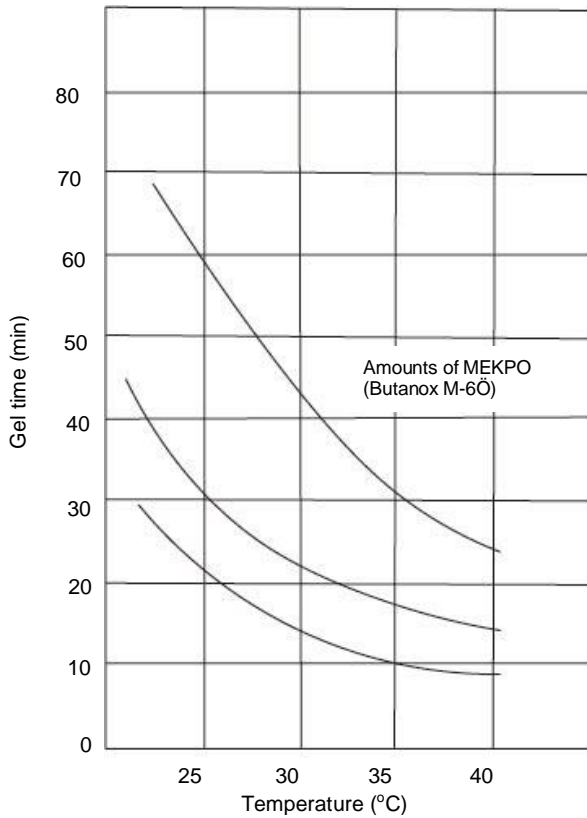
specific gravity	ASTM-D-792	1.45
Barcol hardness	ASTM-D-792	45 J-934-1
Water absorption (24 hrs.,)	ASTM-D-792	0.23 %
flexural strength	ASTM-D-792	20.8 kgf. /mm ²
Flexural modulus	ASTM-D-792	900 kgf. /mm ²
Tensile strength	ASTM-D-792	11.6 kgf. /mm ²
Tensile modulus	ASTM-D-792	950 kgf. /mm ²

*Curing condition: MEKPO (Butanox M-60) = 1 0% FRP

sheet laminate by using chopped strand mat 450 g/m²
3 plies glass content and post cured at 110⁰C/ 2 hrs.



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)

