

Recapoli 957PA L2

Versatile unsaturated polyester for Hand layup/ Spray-up applications

Recapoli 957PA L2 is an easy-to-handle unsaturated polyester resin that can be used to make a large range of composite products.

With Recapoli 957PA L2 you can make durable parts in a cost-effective manner.

Benefits

- High versatility for use in multiple applications
- Easy, fast impregnation of fiber mats
- Effective color-change indicator
- Great balance of cost and performance
- Reactivity optimized for winter period

Major Applications

Recapoli 957PA L2 is suitable for the production of standard quality glass-fibre reinforced parts with the hand lay-up / spray-up process. The resin has good wetting properties, resistance against sagging on vertical surfaces, and contains a peroxide-indicator.

Recapoli 957PA L2 has a higher reactivity, a medium viscosity and contains thixotropic agents and can be cured with conventional curing agents.

Certifications and Approvals

Cured unreinforced Recapoli 957PA L2 conforms to type 1120 according to DIN 16946/2, is classified in group 0 according to DIN 18820/1 and in group 1A according to EN ISO 13121/1.

Property	Value	Unit	TM
Solids content	60 - 65	%	TM N378.01
Viscosity TM V227.05	500 - 700	mPa.s	TM V227.05
Gel time 25 °C	15 - 25	min	TM 7103
Peak time	8 - 12	min	TM 7103
Peak temperature (Tmax)	80 - 120	°C	TM 7103
Thix index-value	2 - 4	-	TM V227.05

Viscosity measurement: Brookfield LVT # 3, at 60 rpm. Curing conditions: 25 °C, 100 g resin with 1.5 g (MEKP) Medium reactive Methyl Ethyl Ketone Peroxide.

Liquid			
Property	Value	Unit	TM
Density 23 °C	1100	kg/m ³	TM 2160
Flash point	33	°C	TM 2800
Stability (Solid, dark, 25 °C)	3	month	

Solid Unfilled			
Property	Value	Unit	TM
Tensile strength	80	MPa	ISO 527-2
Tensile modulus	4.1	GPa	ISO 527-2
Elongation at break	2.5	%	ISO 527-2
Flexural strength	105	MPa	ISO 178
Flexural E-Modulus	4.2	GPa	ISO 178
HDT	74	°C	ISO 75A

Cured for 24 h at room temperature and post cured 5 h at 100°C.

Application Guidelines

Recapoli 957PA L2 normally exhibits tack-free cure. However, the surface may not be cured completely. To ensure tack-free cure of surfaces exposed to air, suitable additives (eg. paraffin solution) should be added. The final state of cure may be optimized by post curing at elevated temperature (80 °C) for several hours.

The resin should be conditioned at a well-defined application dependent temperature (usually 15 °C minimum for a MEKP/Cobalt cure). Stir the resin well before use.

Storage Guidelines

The resin should be stored indoors in a dry place at temperature tight and undamaged packaging.

The properties of the resin may change slightly during storage.

Material Safety

A Safety Data Sheet (SDS) of this product is available on request.