

# L720-IMP-05

## Iso/NPG resin for UV-Cure CIPP/Relining

L720-IMP-05 is an Iso/NPG resin used in CIPP/Relining applications. The resin contains a photo initiator system enabling curing with UV-light. Resin can be thickened by MgO.

Liners made from L720-IMP-05 provide enhanced chemical resistance and improved mechanical properties vs. standard Iso resins.

### Benefits

- Enhanced chemical resistance
- Great mechanical strength and resilience
- Fast installation (curable through UV light)
- Can be used with glass liners (MgO thickenable)

### Major Applications

L720-IMP-05 is suitable for the production of glass-fiber reinforced plastics with excellent mechanical properties which require outstanding chemical resistance (e.g. tanks, vessels, hydraulic engineering, pipes, boats, corrosion protection and electrical industry).

The resin is especially formulated for the production of glass fiber reinforced prepregs. These prepregs are very well suited for the repair of sewage systems.

### Product Specifications

Property	Value	Unit	TM
Solids content	52 - 56	%	TM 2033
Viscosity 23 °C, 100 s <sup>-1</sup>	550 - 650	mPa.s	TM 2013
Viscosity after 55 min	1 - 1000000	mPa.s	TM 2914F
Viscosity after 115 min	1 - 1000000	mPa.s	TM 2914F
Viscosity after 175 min	1 - 1000000	mPa.s	TM 2914F
Viscosity after 190 min	1 - 1E+07	mPa.s	TM 2914F
Acid value	10 - 14	mg KOH/g	TM 2401
Peak time	4 - 7	min	TM 2500
Peak temperature	170 - 200	°C	TM 2500
Water content	0,06 - 0,08	%	TM 2350

## Liquid

Property	Value	Unit	TM
Density 23 °C	1100	kg/m <sup>3</sup>	TM 2160
Styrene content	45	%	
Peak Temperature	185	°C	
Gel time at 25°C	5	min	

## Solid Unfilled

Property	Value	Unit	TM
Flexural strength	143	MPa	ISO 178
Flexural E-Modulus	4	GPa	ISO 178
Tensile strength	82	MPa	ISO 527-1
Tensile modulus	3.7	GPa	ISO 527-1
Elongation at break	3.6	%	ISO 527-1
HDT	113	°C	ASTM D648
Tg	125	°C	ISO 537

Cure: 1.0 g cobalt accelerator (1%) + 1.0 g (MEKP) Medium reactive Methyl Ethyl Ketone Peroxide in 100 g resin.

Post cure: 24 h Rt + 24 h 100°C

## 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.

## Test Methods

Test methods (TM) referred to in the table(s) are available on request.

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### Contact us for more information

We will help you to choose the right resin solution.

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