

TECHNICAL INFORMATION

POLIMAL[®]

1222

Application

Polimal 1222 is designed for the production of polyester-glass laminates in pultrusion process.

Resin characteristics

Polimal 1222 is not accelerated, medium reactivity, isophthalic, unsaturated polyester resin. This resin is recommended for the production of the goods with high resistant parameters as well as high heat and water resistance.

Advantages of usage:

- good chemical and water resistance,
- high HDT,
- good mechanical properties.

Typical parameters

Parameter	Unit	Value
Viscosity, (at 25°C) acc. to ISO 3219	mPa s	500÷1000
Gel time at 25°C acc. to DIN 2535	min	10÷20
Tensile strength acc. to ISO 527	MPa	min. 80
Flexural strength acc. to ISO 178	MPa	min. 120
Tensile modulus acc. to ISO 527	MPa	3700
Elongation at break acc. to ISO 527	%	3,0
Heat deflection temperature (HDT) acc. to ISO 75	°C	min. 90
Barcol hardness ASTM –D 2583-95	°B	45
Water absorption after 7 days	mg	< 60
Guarantee period	months	6

Gel time with: 1 % Co1% + 2% Luperox® K-1S (MEKP)

Mechanical parameters refer to not reinforced resin curing for 24 hours at room temperature and post curing for 2 hours at 80°C.

Storage conditions

Polimal 1222 should be stored in close package in a dry, shady and cool places, adapted for storing flammable materials at temperatures not exceeding 25°C.

Processing conditions

The resin should be mixed before use. Good curing required ambient temperature above 18°C and low air humidity. The best curing conditions are obtained using 1%-1,5% Cobalt accelerator and 1%-2% MEKP as hardener. The final curing could be optimize by postcuring at elevated temperatures.

Polimal[®] is the trade name reserved for unsaturated polyester resins produced by **CIECH - Sarzyna S.A.**

Luperox[®] is the trade name registered for products of **ARKEMA** company.

Data and suggestions included in this document are on the basis of our own tests and are considered by us as reliable. However, we cannot take any responsibility for actions and losses directly or indirectly resulted from using our products. User should check the product quality, safety and properties before its using.

Note:

The information does not substitute Material Safety Data Sheet or Technical Specification, which are superior documents and are available on the customer's request.