

TECHNICAL INFORMATION

POLIMAL[®]

122-2 LP

Application

Polimal[®] 122-2 LP is recommended for production of polyester – glass profiles by pultrusion method.

Resin characteristics

Polimal[®] 122-2 LP is constructional, non-accelerated, isophthalic, unsaturated polyester resin with anti-shrinkage additive. Profiles made of **Polimal[®] 122-2 LP** are characterized by high resistance to hydrolysis and low water absorption.

Typical parameters

| Parameter | Unit | Value |
|--|--------|------------------|
| Viscosity at 23°C acc. to ISO 3219 | mPa s | 600 ÷ 800 |
| Gel time at 25°C acc. to DIN 16945 | min | 10 ÷ 20 |
| Tensile strength acc. to ISO 527 | MPa | 80 |
| Flexural strength acc. to ISO 178 | MPa | 120 |
| Tensile modulus acc. to ISO 527 | MPa | 3700 |
| Elongation at break acc. to ISO 527 | % | 3 |
| Heat deflection temperature (HDT) acc. to ISO 75 | °C | 90 |
| Barcol hardness ASTM –D 2583-95 | °B | 45 |
| Guarantee period | months | 6 |

Curing system: 1% Co1% + 2% Luperox[®] K-1 S (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[®] 122-2 LP 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 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.