

## TECHNICAL INFORMATION

# POLIMAL<sup>®</sup>

# 2701

### Application

**Polimal 2701** is applied in the production of polyester-glass laminates e.g. profiles, pipes, tanks.

### Resin characteristics

**Polimal 2701** is not accelerated, high reactivity, orthophthalic unsaturated polyester resin.

### Advantages of usage:

- very good processing features,
- good wettability of glass fiber,
- good mechanical parameters,
- high HDT,
- favourable curing characteristics.

### Typical parameters

Parameter	Unit	Value
<b>Viscosity, (at 23°C)</b> acc. to DIN 53015	mPa s	<b>900÷1200</b>
<b>Gel time at 25°C</b> acc. to DIN 2535	min	<b>20÷40</b>
<b>Flexural modulus</b> acc. to ISO 178	MPa	<b>3150</b>
<b>Flexural strength</b> acc. to ISO 178	MPa	<b>100</b>
<b>Tensile modulus</b> acc. to ISO 527	MPa	<b>3660</b>
<b>Elongation at break</b> acc. to ISO 527	%	<b>1,4</b>
<b>Heat Deflection Temperature (HDT)</b> acc. to ISO 75	°C	<b>110</b>
<b>Barcol hardness</b> ASTM -D 2583-95	°B	<b>46</b>
<b>Guarantee period</b>	months	<b>3</b>

Gel time with: 0,5 % Co1% + 2% Luperox<sup>®</sup> K-3

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 2701** 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. It is possible to adjust the gel time by changing the amount of accelerator and hardener. The final curing could be optimize by postcuring at elevated temperatures.

**Polimal<sup>®</sup>** is the trade name reserved for unsaturated polyester resins produced by **CIECH - Sarzyna S.A.**

**Luperox<sup>®</sup>** 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.