

**TECHNICAL INFORMATION**

# POLIMAL<sup>®</sup> SAN 1092 AWTP

**Application**

**Polimal<sup>®</sup> SAN 1092 AWTP** is recommended for the production of polyester – glass laminates on PMMA and ABS/PMMA plates by hand lay-up and spray lay-up.

**Resin characteristics**

**Polimal<sup>®</sup> SAN 1092 AWTP** is accelerated, thixotropic, orthophthalic, unsaturated polyester resin with colorful curing indicator and reduced styrene emission.

Advantages of using:

- good wetting and permeating of glass fiber and mineral fillers,
- excellent adhesion to PMMA and ABS/PMMA.

**Typical parameters**

Parameter	Unit	Value
<b>Viscosity at 25°C</b> acc. to ISO 3219	mPa s	<b>150 ÷ 250</b>
<b>Gel time at 25°C</b> (25 ÷ 35) acc. to DIN 16945	min	<b>6 ÷ 15</b>
<b>Time from 25°C to Tmax</b> acc. to DIN 16945	min	<b>10 ÷ 25</b>
<b>Exothermic peak</b> acc. to DIN 16945	°C	<b>max. 120</b>
<b>Tensile strength</b> acc. to ISO 527	MPa	<b>70</b>
<b>Flexural strength</b> acc. to ISO 178	MPa	<b>110</b>
<b>Tensile modulus</b> acc. to ISO 527	MPa	<b>4300</b>
<b>Elongation at break</b> acc. to ISO 527	%	<b>2,0</b>
<b>Heat deflection temperature (HDT)</b> acc. to ISO 75	°C	<b>63</b>
<b>Barcol hardness</b> ASTM –D 2583-95	°B	<b>45</b>
<b>Guarantee period</b>	months	<b>3</b>

**Gel time with: 2% Luperox<sup>®</sup> 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<sup>®</sup> SAN 1092 AWTP** 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 in original packages.** The resin and fillers should be seasoned before use at 18°C and humidity of 70%, minimum. The favorable curing conditions are reached by using 2% of MEKP hardener. It is possible to adjust gel time by varying of amount of hardener, the best within the range of 1 – 2 %. 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.