

**TECHNICAL INFORMATION**

# POLIMAL<sup>®</sup>

# 144 B

## Application

**Polimal<sup>®</sup> 144 B** is recommended for the production of fast-curing mining cartridges.

## Resin characteristics

**Polimal<sup>®</sup> 144B** is terephthalic, unsaturated polyester resin with amine promotor. It is characterized by good wetting of mineral fillers and processing features. It is highly stable during storage period.

## Typical parameters

Parameter	Unit	Value
<b>Viscosity at 25°C</b> acc. to ISO 3219	mPa s	<b>300 ÷ 400</b>
<b>Gel time at 25°C</b> acc. to DIN 16945	min	<b>2,5 ÷ 5</b>
<b>Flexural strength</b> acc. to ISO 178	MPa	<b>100</b>
<b>Tensile modulus</b> acc. to ISO 527	MPa	<b>3500</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>70</b>
<b>Barcol hardness</b> ASTM –D 2583-95	°B	<b>40</b>
<b>Guarantee period</b>	months	<b>3</b>

**Gel time with: 2% NB (50%), e.g. Luperox<sup>®</sup> ANS 50**

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> 144 B** 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.**

**Polimal<sup>®</sup> 144 B** can be cured by benzoyl peroxide e.g. Luperox<sup>®</sup> ANS 50 at temperature above 10°C. Good curing require temperature above 15°C and low humidity.

**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.