

TECHNICAL INFORMATION

POLIMAL[®]

104 WTP U

Application

Polimal[®] 104 WTP U is recommended for the production of glass-reinforced polyester laminates by hand or spray lay-up.

Features

Polimal 104 WTP U is constructional, orthophthalic, accelerated, thixotropic resin with changing-color curing indicator system and UV stabilizer. The resin is characterized by increased thermal resistance (HDT) and good glass fiber wetting and impregnation properties. It meets the requirements of **DIN 16 946/2 type 1140**.

Typical parameters

Parameter	Unit	Value
Viscosity 25°C acc. to ISO 3219	mPa s	250÷350
Gel time at 25°C acc. to ISO 2535	min	10÷20
Compressive strength acc. to ISO 604	MPa	120
Tensile strength acc. to ISO 527	MPa	80
Impact resistance acc. to ISO 179	kJ/m ²	10
Tensile modulus acc. to ISO 527	MPa	3600
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
Guarantee period	months	3

Gel time with: 2% Luperox® K-1S

Mechanical parameters refer to unreinforced resin cured for 24 hours at room temperature and post curing for 8 hours at 80°C.

Storage conditions

Polimal 104 WTP U 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 2% MEKP as hardener. It is possible to adjust gel time by varying of amount of hardener, the best within in the range of 1 – 2 %. 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.