

TECHNICAL INFORMATION

POLIMAL[®]

1059 – 00

Application

Polimal 1059-00 is designed for the production of polyester-glass laminates in pultrusion process.

Resin characteristics

Polimal 1059-00 is not accelerated, medium reactivity unsaturated polyester resin based on DCPD.

Advantages of usage:

- very good processing features,
- good wettability of glass fibre,
- lower styrene emission in relation to standard orthophthalic resins,
- favourable curing characteristics

Typical parameters

Parameter	Unit	Value
Viscosity, (at 25°C) acc. to ISO 3219	mPa s	500÷1000
Gel time at 25°C acc. to DIN 2535	min	10÷20
Tensile strength acc. to ISO 527	MPa	70
Flexural strength acc. to ISO 178	MPa	100
Tensile modulus acc. to ISO 527	MPa	3400
Elongation at break acc. to ISO 527	%	2,5
Heat deflection temperature (HDT) acc. to ISO 75	°C	70
Barcol hardness ASTM –D 2583-95	°B	45
Guarantee period	months	6

Gel time with: 1 % Co1% + 2% Luperox® K-1S

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 1059-00 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 1%-1,5% Cobalt accelerator and 1%-2% MEKP as hardener. 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.

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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.