

polimal[®] 109-051

unsaturated polyester resin

Application.

The resin **Polimal[®] 109-051** is recommended for the production of the goods with the pultrusion method.

Resin characteristics.

Polimal[®] 109-051 is unsaturated polyester resin orthophthalic, non-thixotropic, non-accelerated.

Advantages of usage:

- good processing features:
- good wettability of glass fibre
- received goods have good resistance parameters.

Typical resin parameters.

Viscosity (at 25°C) ISO 3219	mPa s	1000-1200
Gel time ISO 2535: 2004	min	25-35
Flexural strength, acc. to ISO 178	MPa	110
Tensile strength acc. to ISO 527	MPa	70
Tensile modulus, acc. to ISO 527	MPa	3900
Impact resistance, min. acc. to ISO 179	kJ/m ²	9
Heat deflection temperature - ISO 75	°C	75
Barcol hardness, acc. to ASTM D 2583	°B	45

Gel time : 1% accelerator Co1% + 1% Luperox[®] K-1

The given mechanical properties are for cured resin 1 % Co1% and 2% MEKP – Luperox K-1 Curing for 24 hours at room temperature and post-curing for 2 hours at 80°C.

Storage conditions.

The resin should be stored in closed original containers, in dry, well ventilated and shaded storage rooms adapted for storage of inflammable materials at the temperature below 25°C

Processing conditions.

The resin of the temperature above 15°C is required for processing. Good curing requires ambient temperature at least 18°C and low air humidity. **Polimal[®] 109-051** is the resin with stable gel time during storing. The gel time control is reached by changing the amount of hardener within the range of 1,5 - 2,5% , the amount of cobalt accelerator as well as the processing temperature.

Version:

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Note:

The information does not substitute Material Safety Data Sheet, Company Standard or Technical Specification, which are superior documents and can be available on request.