Organika Sarzyna Ciech

TECHNICAL INFORMATION

polimal® 1058

unsaturated polyester resin

Application

Polimal 1058 is recommended for production of polyester-glass laminates in the closed moulds (RTM).

Resin characteristics

Polimal 1058 is constructional, medium-flexible resin based on DCPD.

Application:

* very good processing features,
- good wettability of glass fibre,
- lower styrene emission in relation to standard orthophthalic resins,
- favourable curing characteristics (short time of post-curing)
- good wettability of fillers
* very good resistance parameters
* high heat resistance.

Typical parameters of Polimal 1058

Tested parameter/standard	Unit	Value
Viscosity, at 23°C	mPas	**150÷200**
Gel time, at 25°C acc. to ISO 2535	minut	**8÷13**
Bending strength, min acc. to ISO 178	MPa	**81**
Tensile strength acc. to ISO 527	MPa	**55**
Tensile modulus, min. acc. to ISO 527	MPa	**3800**
Elongation at tension acc. to ISO 527	%	**1,5**
Impact resistance, min acc. to ISO 179	kJ/m^2	**7**
Heat resistance, HDT acc. to ISO 75	°C	**80**
Barcol hardness, min acc. to ASTM D 2583	°B	**40**
Guarantee period	months	**6**

* gel time: with 1,5% Co accelerator 1%,and 2% MEKP [Luperox K-1]

Storage conditions

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

Processing conditions

The resin of the temperature above 15ºC is required for processing. It is required to mix the resin in the tank or in the unit packages before using. Good curing requires the ambient temperature above 18ºC and the low air humidity.
Gel time control is achieved by changing:
- amount of cobalt accelerator 1% within the range of 0,4 -1,5 % or
- amount of hardener, the best within the range of 1-2%.

Polimal® is the trade name reserved for unsaturated polyester resins produced by **Zakłady Chemiczne „Organika - Sarzyna" S.A.**

Luperox® is a trade name reserved for **ARKEMA** products.

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

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