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TECHNICAL INFORMATION

POLIMAL® 1602 APyS

Application

Polimal® 1602 ApyS is designed for the production of polyester-glass laminates of lower flammability. Low-voltage switchboard box on the basis of **Polimal®1602 ApyS** has positive assessment:
- issued by CTO Gdańsk No. RO-97/B-323 (test methods according to the standard BN-91/8870-08),
- Research and Development Center of Fire-Fighting in Józefów, Decision No. 28/BM/98.

Features

Polimal® 1602 APyS is constructional, accelerated, orthophthalic unsaturated polyester resin with reduced styrene emission and white colour. The content of some additives gives the resin flame retardant properties.

Typical parameters

Parameter	Unit	Value
Viscosity 25°C acc. to ISO 3219	mPa s	**220 ÷ 280**
Gel time at 25°C acc. to ISO 2535	min	**10 ÷ 20**
Flexural strength acc. to ISO 178	MPa	**50**
Impact strenght acc. to ISO 179	MPa	**5 - 6**
Heat deflection temperature (HDT) acc. to ISO 75	^{o}C	**100**
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^{0}C.

Storage conditions

Polimal® 1602 APyS 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 optimalize 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.

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