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TECHNICAL INFORMATION

POLIMAL® 1608 PS

Application

Polimal® 1608 PS is designed for the production of polyester-glass laminates of lower flammability.

Classification acc. to DIN 5510: **S4/SR2/ST2**
Classification acc. to NF P 92-501: **M2**

Features

Polimal® 1608 PS is constructional, accelerated, filled with mineral fillers, DCPD modified, unsaturated polyester resin.

Typical parameters

Parameter	Unit	Value
Viscosity 25°C acc. to ISO 3219	mPa s	**500 ÷ 800**
Gel time at 25°C acc. to DIN 16945	min	**10 ÷ 20**
Tensile strength acc. to ISO 527	MPa	**40**
Flexural strength acc. to ISO 178	MPa	**60**
Tensile modulus acc. to ISO 527	MPa	**6000**
Elongation at break acc. to ISO 527	%	**0,8**
Heat deflection temperature (HDT) acc. to ISO 75	°C	**100**
Barcol hardness acc. to ASTM-D 2583-95	°B	**55**
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 2 hours at 80^0C.

For production of polyester – glass laminates with limited flammability and smoke emission are designed colored gelcoats based on Polimal® GE 1608.

Storage conditions

Polimal® 1608 PS 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. It is not recommended to dilute resin because of loss of non-flammable properties.

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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