

TECHNICAL INFORMATION

POLIMAL[®] 1607, 1607 INF

Application

Polimal[®] 1607 is recommended for the production of glass-reinforced polyester laminates with reduced flammability applied in rolling stock.

This resin is available in two versions:

Polimal 1607 – recommended for hand lay-up.
Polimal 1607 INF – recommended for RTM and infusion method.

Features

Polimal 1607 is thixotropic, not accelerated resin. It is filled with mineral fillers. **It meets the requirements R1 of norm EN 45545-2 for HL1 and HL2 levels in the system with Gelcoat 1600P.**

Typical parameters

| Type | Viscosity at 25°C, Brookfield sp.21 | Gel time at 25°C, 1% Co1% + 2% Luperox K-1 S |
|-------------------------|-------------------------------------|--|
| | cP | min |
| Polimal 1607 | 300 - 500 | 12 - 25 |
| Polimal 1607 INF | 200 - 300 | 40 - 60 |

Typical mechanical parameters

| Parameter | Unit | Value |
|---|-------|-------------|
| Tensile strength acc. to ISO 527 | MPa s | 19 |
| Elongation at break acc. to ISO 527 | % | 0,4 |
| Flexural modulus acc. to ISO 178 | MPa | 6680 |
| Barcol hardness ASTM-D 2583-95 | °B | 47 |
| Guarantee period | month | 3 |

Storage conditions

The resin 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 curing system should be tested in production conditions. The final curing could be optimize by postcuring at elevated temperatures. The resin and gelcoat can't be diluted because of losing its 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.