

# GELGRAPH GELCOAT ISO MOULDS

## 1. DESCRIPTION

Gelgraph Gel Coat ISO Moulds is a gel coat based on isophthalic unsaturated polyester NPG with graphene, designed for industrial and high-performance applications. Its advanced formulation provides high mechanical, chemical and weather resistance, excelling in applications where durability and protection are required.

## 2. PROPERTIES

- Excellent chemical resistance: withstands exposure to aggressive environments.
- Excellent mechanical resistance: provides a hard and tough coating.
- Adapted viscosity: allows application by brush, roller or spray (airless).
- Thermal resistance: good stability at high temperatures.
- High resistance to UV, hydrolysis and ageing.
- Excellent adhesion and flexibility.
- Low loss of mechanical properties at high temperatures.

## 3. APPLICATIONS

- Marine industry: coatings for boats and marine structures.
- Automotive industry: durable and impact resistant finishes.
- Industrial coatings: surface protection in aggressive environments.
- Glass fibre reinforced polyester moulds and parts.
- Use for finishing shower trays.

## 4. TECHNICAL CHARACTERISTICS

<b>APPEARANCE</b>	White liquid
<b>EXOTHERMIC PEAK TEMPERATURE (IN 45 MIN)</b>	120 – 175 °C
<b>GEL TIME [25°C] (min)<sup>1</sup></b>	4 – 15
<b>SHORE HARDNESS</b>	95 – 105
<b>VISCOSITY BROOKFIELD [H3, 25°C] (cP)</b>	5 000 – 7 000

(1) 100/0.225 Co/1.2 PMEK

## 5. MECHANICAL CHARACTERISTICS

	APPLY STANDARD	VALUE
<b>FLEXURAL MODULUS (MPa)</b>	UN 14125	7 000 – 8 000
<b>FLEXURAL STRENGTH (MPa)</b>	UN 14125	60 – 80
<b>MAXIMUM DEFLECTION (mm)</b>	UN 14125	0.80 – 1.20

*Mechanical properties of catalyzed gel coat.*

## 6. STORAGE AND PACKAGING

- The product should be stored in a dry place at a temperature not exceeding **25°C**.
- The expiry date is **6 months** under the conditions mentioned above.
- Generally, the products will be supplied in cans and drum format.
- For other quantities and/or packaging: contact Graphenano Composites Sales Department.