

**DEPOL IN-900 TG** is a high quality pre-accelerated fire retardant gelcoat on the basis of the resin, produced with chlorendic anhydride. The variant for hand lay-up as well as for spray application is commercially available. The gelcoat colour is selected using the RAL catalogue or is manufactured according to a customer's sample.

## GENERAL PROPERTIES AND FIELD OF APPLICATION

- The gelcoat demonstrates excellent **thermal and chemical resistance** when contacting a wide range of alkaline as well as acid environments. When used in the course of production with fire-retarding resins (Devynyl 950TG, Devynyl 950TG 2, Depol T-810) this gelcoat confers fire-retarding properties to the manufactured laminate.
- Laminates, produced on the basis of this gelcoat, possess **high flame retardance** (GOST 12.1.044-89 certificate of conformity is available) in combination with high strength and resistance to alternating loads.
- Well-balanced rheological properties of the gelcoat facilitate its hand application as well as spraying process. Despite its high pigmentation and antipyrene fillers, the gelcoat doesn't slope down vertical surfaces even if the applied layer reaches 1000 microns.
- Ideal for manufacture of gas ducts and fume ducts, vent hoods, operated and maintained in conditions of aggressive environments and high temperatures, as well as for chemically resistant containers. Manufacture of various products, such as interior trim in means of transportation, as well as production of load-bearing structures of road, rail and electric means of transportation, survival capsules at ships and drilling rigs.

### 1. RESIN CHARACTERISTICS WHEN SUPPLIED

Properties	Unit of measurement	Characteristic	Method
1. Appearance		Non transparent liquid	Visual
2. Gel time, at 20 <sup>0</sup> C 2% Butanox M-50	Minutes	15-20	Dugalak's procedure
3. Dynamic Brookfield viscosity RV at 23 <sup>0</sup> C, speed 50, spindle 3 Viscosity for the hand application version	mPa*s	5000-10000 (15000-30000)	GOST 25271-93 ISO 2555-89
4. Flash point	<sup>0</sup> C	31	ISO 3679
5. Shrinkage below	%	2	ASTM D 256-69
5. Non-volatile matter content	%	70±4	GOST 17537

[www.dugalak.com](http://www.dugalak.com)

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**2. PHYSICAL AND MECHANICAL PROPERTIES OF THE GELCOAT**

Properties	Characteristic	Unit of measurement	Method
1. Tensile strength	60-70	MPa	ISO 527-1993
2. Elongation	3-5	%	ISO 527-1993
3. Tensile modulus	3000-3500	MPa	ISO 2555-89
4. Barcol hardness	35-40	Units	ASTM D 2583-99
5. HDT	70	°C	ISO 75-1993

**3. STANDARD PACKING**

Two-bunghole steel drums of 220 kg, polyethylene, cube-shaped 1100 kg containers

**4. STORAGE**

**Warranty period:** 3 months

**Storage conditions:** store in original packaging in confined space, away from heat sources, at temperature not exceeding 25°C, avoid direct sunlight.

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