

Devinyl 910 is a non pre-accelerated, epoxy vinyl ester resin, based on bisphenol A and is designed for hand lay out molding as well as for spray application, RTM-technologies, for winding production using continuous and periodical method. The pre-accelerated version of the resin is available on request. The low-viscosity variant of the resin – Devinyl-911 - is available as well.

GENERAL PROPERTIES AND FIELD OF APPLICATION

- This resin demonstrates excellent **chemical resistance** to a wide range of substances (organic and non-organic acids, saline solutions, alkalis, electrolytes, alcohols, fuel and lubricants) at room as well as elevated temperature
- Wets well various fiberglass materials (roving, mats, burlap, etc).
- Products, manufactured on the basis of this resin, retain their stable **physical and mechanical** properties under conditions of **elevated temperatures and aggressive environment** due to the resin high crosslink density.
- 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 production of chemically resistant containers on its own as well as a liner combined with structural resin. Manufacture of various products, such as interior trim of transports, as well as load-bearing structures of road, rail and electric transports.

1. RESIN CHARACTERISTICS WHEN SUPPLIED

Properties	Unit of measurement	Characteristic	Method
1. Appearance		Transparent liquid with colour ranging from brown to dark brown	Visual
2. Gel time, at 20 ⁰ C 2% Co 1% 0,2% N-N-dimethylacetamide 2% Butanox LPT	Minutes	18-35	Dugalak's procedure
3. Dynamic Brookfield viscosity RV at 23 ⁰ C, 50 speed, spindle 2 Viscosity for Devinyl-911 version	mPa*s	400-500 (120-200)	GOST 25271-93 ISO 2555-89
4. Flash point	⁰ C	31	ISO 3679
5. Density	kg/m ³	1,1±0.05	ISO 2811-2001
6. Acidity number	mgKOH/gr	15	ISO 2535
7. Solid content	%	58±2	ISO 3251

www.dugalak.com

D.O.O. Dugalak, Serbia

Sales: 11000 Belgrade, Bul.Arsenija Carnojevic 101
Phone: +381 11 711 9590
E-mail: ivana.stanistic@dugalak.com

Technical support:
Phone: +381 60 389 0180, +7 962 212 37 42
E-mail: d.zivkovic@dugalak.ru

2. PHYSICAL AND MECHANICAL PROPERTIES OF THE RESIN

Properties	Unit of measurement	Characteristic	Method
1. Tensile strength	MPa	80	ISO 527-1993
2. Elongation	%	5	ISO 527-1993
3. Tensile modulus	MPa	3100-3400	ISO 2555-89
4. Barcol hardness	Units	35-40	ASTM D 2583-99
5. HDT	°C	100	ISO 75-1993
6. Water absorption	mg	35	GOST 4650-014 (ISO 62:2008)

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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