

Devinyl 920 is a non-accelerated, epoxy vinyl ester resin, based on the novolac resin and is designed for hand lay up molding as well as for spray application, RTM-technologies, for winding production using continuous and periodical method. Pre-accelerated resin is available on request. The pre-promoted and thixotropic version of the resins is available for delivery.

GENERAL PROPERTIES AND FIELD OF APPLICATION

- This resin demonstrates the highest for our product assortment thermal and 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
- It demonstrates excellent wetting ability towards various fiberglass and carbon materials (roving, mats, cloth, etc).
- The 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 chemically resistant containers on its own as well as a liner combined with structural heat-stable 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% 0,1% 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 Devinyll-911 version	mPa*s	200-350	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	17	ISO 2535
7. Solid content	%	64±2	ISO 3251

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2. PHYSICAL AND MECHANICAL PROPERTIES OF THE RESIN

Properties	Unit of measurement	Characteristic	Method
1. Tensile strength	MPa	75	ISO 527-1993
2. Elongation	%	3	ISO 527-1993
3. Tensile modulus	MPa	3500	ISO 2555-89
4. Barcol hardness	Units	45-50	ASTM D 2583-99
5. HDT	°C	135	ISO 75-1993
6. Water absorption	mg	60	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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