

**Devinyl 950 TG2** is a high-quality filled fire retardant, pre-accelerated, brominated epoxy vinyl ester resin. It is designed for hand lay up molding as well as for spray application, RTM-technologies, pultrusion.

### GENERAL PROPERTIES AND FIELD OF APPLICATION

- Laminates, produced on the basis of this resin, possess **high flame retardance** (GOST 12.1.044-89 certificate of conformity is available) in combination with high strength and resistance to aggressive environments.
- Being a highly filled system, the resin, however, provides high-quality wetting of fiberglass material and high **physical and mechanical** performance. When the RTM version of the resin is used, thanks to the quality dispersion and stabilization of flame retardant fillers, the latters are uniformly distributed over the entire area of the product as well as through-out its thickness.
- Used for manufacture of gas ducts and fume ducts, vent hoods, operating in conditions of aggressive environments and high temperatures, as well as for production of chemically resistant containers, pipelines, floor gratings, stairs and railings. Manufacture of various products, such as, interior trim in automotive industry as well as load-bearing structures of road, rail and electric transports, water-borne transports and life boats.

#### 1. RESIN CHARACTERISTICS WHEN SUPPLIED

Properties	Unit of measurement	Characteristic	Method
Appearance	White liquid		Visual
Gel time, at 20 <sup>0</sup> C 1,5% (Trigonox) 239	20-30	Minutes	Dugalak's procedure
Dynamic Brookfield viscosity RV at 23C, 50 speed, spindle 3 Viscosity for RTM version	800-1200 (400-500)	mPa*s	GOST 25271-93 ISO 2555-89
Flash point	31	<sup>0</sup> C	ISO 3679
Shrinkage below	2	%	ASTM D256-69
Density	1,5-1,6	kg/m <sup>3</sup>	ISO 2811-2001
Solid content	74±2	%	GOST 17537

#### 2. PHYSICAL AND MECHANICAL PROPERTIES OF THE RESIN

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

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Properties	Characteristic	Unit of measurement	Method
1. Tensile strength	60	MPa	ISO 527-1993
2. Elongation	1	%	ISO 527-1993
3. Tensile modulus	3200-3400	MPa	ISO 2555-89
4. Barcol hardness	40	Units	ASTM D 2583-99
5. HDT	90	<sup>o</sup> 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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