

**DEPOL T-810** is a non pre-accelerated unsaturated thixotropic polyester halogenated resin based on chlorendic anhydride. It is formulated for hand lay-up as well as for spray-up, RTM-technologies. Pre-accelerated resin version is available on request.

## GENERAL PROPERTIES AND FIELD OF APPLICATION

- Thanks to particularities of its chemical structure and synergistic interaction with antipyrene fillers, the resin acquires excellent *thermal and chemical resistance* combined with *fire-retarding properties*.
- High filler loading capacity of the resin and good quality of the fiberglass material impregnation maintain low content of volatile substances in the resin, and consequently, *low emission* of styrene.
- Due to low peak exotherm the resin demonstrates *minimum shrinkage properties*.
- 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. Manufacture of various products, such as interior trim of transports, as well as production of load-bearing structures of road, rail and electric transports.

### 1. RESIN CHARACTERISTICS WHEN SUPPLIED

Properties	Unit of measurement	Characteristic	Method
1. Appearance		White	Visual
2. Gel time, at 20 <sup>0</sup> C 2% MEKP and 2% Co 1%	Minutes	20-60	Dugalak's procedure
3. Dynamic Brookfield viscosity RV at 23 <sup>0</sup> C, speed 12, spindle 3 Viscosity for the RTM version	mPa*s	1000-2500 (700-800)	GOST 25271-93 ISO 2555-89
4. Flash point	<sup>0</sup> C	31	ISO 3679
5. Shrinkage below	%	1	ASTM D 256-69
5. Density	kg/m3	1,5	ISO 2811-2001

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

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

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Properties	Unit of measurement	Characteristic	Method
1. Tensile strength	MPa	41-45	ISO 527-1993
2. Elongation	%	2	ISO 527-1993
3. Tensile modulus	MPa	3400-3800	ISO 2555-89
4. Barcol hardness	Units	35-40	ASTM D 2583-99
5. HDT	<sup>0</sup> C	85	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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