

**DEPOL S-180 PT** – is a medium-reactive, pre-accelerated unsaturated thixotropic, unsaturated polyester resin based on dicyclopentadiene. It is formulated for hand lay-up as well as for spray application, RTM-technologies (non-thixotropic version).

## GENERAL PROPERTIES AND FIELD OF APPLICATION

- The dicyclopentadiene based resin, thanks to the particularities of its chemical composition, possesses low styrene emission compared to ordinary ortho-phthalic acids. This factor makes it possible to improve sanitary condition of working environment.
- Due to reduced styrene emission in the resin structure, laminates manufactured on its basis, demonstrate lower shrinkage properties in comparison to standard ortho-phthalic resins.
- Thanks to its modest peak exotherm and moderate heat-release rate in the course of polymerization, it is possible to produce fiberglass composites with increased thickness using “wet-on-wet method”.
- Due to good fiberglass wetting properties, it is used in production of automotive components, shipbuilding, for lamination of acrylic bath-tubs and shower-trays.

### 1. RESIN CHARACTERISTICS WHEN SUPPLIED

| Properties   | Characteristic                                 | Unit of measurement | Method                       |
|--|--|---------------------|------------------------------|
| 1. Appearance  | Transparent, yellow, slightly opalescent fluid |                     | Visual                       |
| 2. Gel time, at 20 <sup>o</sup> C<br>2% MEKP-50  | 20-30  | minutes             | Dugalak's procedure          |
| 3. Dynamic Brookfield viscosity RV<br>at 23 <sup>o</sup> C, speed 12, spindle 3 hand<br>application<br>Viscosity for the spray application version | 1000-1200<br><br>(700-800)                     | mPa*s               | GOST 25271-93<br>ISO 2555-89 |
| 4. Flash point   | 31   | <sup>o</sup> C      | ISO 3679                     |
| 5. Density   | 1,13   | kg/m <sup>3</sup>   | ISO 2811-2001                |
| 6. Styrene content   | 31-35  | %                   | GOST 13549-78                |

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

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

| Properties          | Characteristic | Unit of measurement | Method         |
|---------------------|----------------|---------------------|----------------|
| 1. Tensile strength | 41-45          | MPa                 | ISO 527-1993   |
| 2. Elongation       | 1,5            | %                   | ISO 527-1993   |
| 3. Tensile modulus  | 3000-3200      | MPa                 | ISO 2555-89    |
| 4. Barcol hardness  | 38-40          | Units               | ASTM D 2583-99 |
| 5. HDT              | 85             | <sup>0</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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