

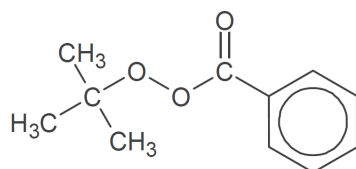
# PEROXAN PB-50 P

## Peroxyester / Curing

### Description

tert-Butyl peroxybenzoate  
50%, Powder with chalk

PEROXAN PB-50 P is used for the curing of unsaturated polyester resins.



Molecular weight: **194.2**  
CAS No.: **614-45-9**

### Technical data

Appearance: **white powder**  
Peroxide assay: **appx. 50%**  
Active oxygen assay: **appx. 4.12%**  
Bulk density at 20°C: **340 kg/m<sup>3</sup>**

### Solubility

Insoluble in water, Soluble in phthalates

### Storage

Maximum storage temperature (Ts max): **30°C**  
Minimum storage temperature (Ts min): **10°C**  
Storage stability as from date of delivery: **6 months**

### Hazardous reactions

Keep packaging tightly closed in a well ventilated place at indicated storage temperature. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps). Never weigh out in storage room.

Oxidizing agent. Decomposes violently under the influence of heat or by contact with reducing agent. Never mix with accelerators.

Organic Peroxides are more or less stable products but will decompose under the influence of heat. To minimize a loss of quality during storage, it is important that the recommended maximum storage temperature is not exceeded. If a minimum storage temperature is given, an undesirable process such as a solidification or phase separation, is known to occur below this temperature.

### Safety characteristics

Flash point: **>SADT°C**  
SADT: **60°C**

The SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which a self accelerating decomposition may occur.

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### Application

PEROXAN PB-50 P is used for the curing of unsaturated polyester resins at high temperatures.

PEROXAN PB-50 P is preferred for the curing of free flowing UP resin based hot press moulding formulations (GMC) in the temperature range from 140° to 160°C.

Depending on application and working conditions, the following peroxide and when applicable cobalt accelerator dosage levels are recommended:

PEROXAN PB-50 P: 2,0 to 4,0 phr

### Packaging

**25kg cardboard box**

### Major decomposition products

**Acetone, Benzoic acid, Benzene, benzene, Carbon dioxide, tert-Butanol**

### Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN PB-50 P. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at [www.pergan.com](http://www.pergan.com) or through contacting Pergan directly.

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