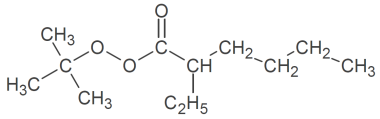
PEROXAN PO

Peroxyester / Curing

Description

tert-Butyl peroxy-2-ethylhexanoate
98%, Liquid

PEROXAN PO is used for the curing of unsaturated polyester resins.



Molecular weight:	**216.3**
CAS No.:	**3006-82-4**

Technical data

Appearance:	**clear liquid**
Peroxide assay:	**min. 98%**
Active oxygen assay:	**min. 7.25%**
Density at 20°C:	**0.9 g/cm³**

Solubility

Insoluble in water, soluble in aliphatics

Storage

Maximum storage temperature (Ts max):	**15°C**
Storage stability as from date of delivery:	**3 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

SADT:	35°C
Emergency temperature:	25°C
Control temperature:	20°C

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

The emergency temperature is derived from the SADT. It is the temperature at which emergency actions have to be taken. The control temperature is the maximum temperature at which the product can be transported safely.

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Application

PEROXAN PO is used for the curing of unsaturated polyester resins at high temperatures.

PEROXAN PO is preferred for the curing of UP resin based hot press moulding formulations in the temperature range from 100° to 140°C. As PEROXAN PO is a high reactive peroxide, it is very suitable as a kicker in formulations for pultrusion and SMC/BMC.

In combination with a cobalt accelerator e.g. PERGAQUICK C12 X (Cobalt, 1%), PEROXAN PO is applicable for the cure of UP resins in the temperature range of 60°C and higher.

PEROXAN PO has normally a much shorter pot life in the pure resin than PEROXAN PB, tert-Butyl peroxybenzoate.

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

PEROXAN PO: 1,0 to 2,0 phr
PERGAQUICK C12 X (Cobalt, 1%): 0,5 to 3,0 phr

Packaging

25kg container

Major decomposition products

3-tert-Butoxyheptane, Heptane, 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 PO. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at **www.pergan.com** or through contacting Pergan directly.

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