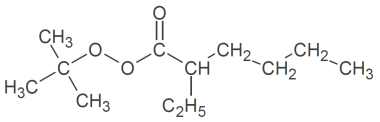
PEROXAN PO-50 P

Peroxyester / Curing

Description

tert-Butyl peroxy-2-ethylhexanoate
50%, Powder with chalk

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



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

Technical data

Appearance:	
Peroxide assay:	**appx. 50%**
Active oxygen assay:	**appx. 3.7%**
Bulk density at 20°C:	**310 kg/m³**

Solubility

Insoluble in water, soluble in aliphatics

Storage

Maximum storage temperature (Ts max):	**15°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.

Safety characteristics

Flash point:	>SADT°C
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-50 P is used for the curing of unsaturated polyester resins at high temperatures. PEROXAN PO-50 P 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-50 P 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- 50 P is applicable for the cure of UP resins in the temperature range of 60°C and higher. PEROXAN PO-50 P 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-50 P: 2,0 to 4,0 phr PERGAQUICK C12 X (Cobalt, 1%): 0,5 to 3,0 phr
Packaging	**25kg cardboard box**
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-50 P. 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.

The information presented herein is true and accurate and to the best of our knowledge, but without any guarantee. Since the conditions of use are beyond our control we disclaim any liability, including for patent infringement, incurred in connection with the use of these products, data or suggestions.

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