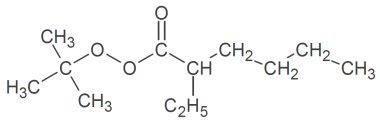
PEROXAN PO M +/4

Peroxyester / Curing

Description

tert-Butyl peroxy-2-ethylhexanoate
90%, Solution with stabilizing agent

PEROXAN PO M+/4 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:	**appx. 90%**
Active oxygen assay:	**appx. 6.66%**
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:	**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.

PERGAN The Peroxide Company
Schlavenhorst 71
D-46395 Bocholt
Germany
Phone: +49 (0)2871 / 99 02-0
Fax: +49 (0)2871 / 99 02-50
www.pergan.com

PEROXAN PO M +/4

Peroxyester / Curing

Application

PEROXAN PO M+/4 is used for the curing of unsaturated polyester resins at high temperatures.

PEROXAN PO M+/4 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 M+/4 is a high reactive peroxide, it is very suitable as a kicker in formulations for pultrusion and SMC/BMC in combination with peroxides like PEROXAN PB or PEROXAN PK295 V.

In comparison to PEROXAN PO or PEROXAN PO M+, the stabilized PEROXAN PO M+/4 gives a much more longer shelf life and stability of the compound, without affecting the cure speed, even when iron oxides or carbon blacks are used as pigment.

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

PEROXAN PO M+/4 as such: 1,0 to 2,0 phr
PEROXAN PO M+/4 as kicker: 0,2 to 1,0 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 M +/4. 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.

Schlavenhorst 71
D-46395 Bocholt
Germany

Phone: +49 (0)2871 / 99 02-0
Fax: +49 (0)2871 / 99 02-50
www.pergan.com