

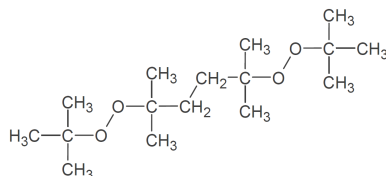
# PEROXAN HX

## Dialkyl peroxide / Polymerization

### Description

2,5-Dimethyl-2,5-di-(tert-butylperoxy)-hexane  
92%, Liquid

PEROXAN HX is used for the production of controlled rheology polypropylene (CR-PP).



Molecular weight:

**290**

CAS No.:

**78-63-7**

### Technical data

Appearance:

**clear liquid**

Peroxide assay:

**min. 92%**

Active oxygen assay:

**min. 10.14%**

Density at 20°C:

**0.87 g/cm<sup>3</sup>**

### Half life time

in chlorobenzene:

t <sub>1/2</sub>	10h	1h	1min
bei	<b>115°C</b>	<b>134°C</b>	<b>174°C</b>

### Solubility

not determined

### Storage

Maximum storage temperature (Ts max):

**40°C**

Minimum storage temperature (Ts min):

**10°C** to prevent freezing

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

**SADT:**

**80°C**

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

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### Application

Controlled rheology polypropylene (CR-PP) in an extrusion process:  
PEROXAN HX allows great flexibility in controlling the melt flow index (MFI) of polypropylene. Small changes in either peroxide concentration or process temperature can produce significantly different MFIs. The MFI increases with the peroxide level.

Temperature range: 200 to 250°C  
Dosing: 0,01 to 0,1 phr

### Packaging

**25kg container**

### Major decomposition products

**Acetone, Ethane, Methane, tert Amyl-alcohol, tert-Butanol**

### Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN HX. 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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