

## PERGAPROP HX-10 PP

## **Dialkyl peroxide / Polymerization**

**Description** 2,5-Dimethyl-2,5-di-(tert-butylperoxy)-hexane

10%, Granules with Polypropylen

PERGAPROP HX-10 PP is used for the production of controlled rheology polypropylene (CR-PP).

$$\begin{array}{c} \text{CH}_3 \\ \text{CH}_3 \\ \text{CH}_3 \\ \text{CH}_2 \\ \text{CH}_3 \\ \text{CH}_2 \\ \text{CH}_3 \\$$

Molecular weight: 290.4 CAS No.: 78-63-7

Technical data Appearance: white granules

Peroxide assay: appx. 10%
Active oxygen assay: appx. 1.1%
Bulk density at 20°C: 430 kg/m³

Half life time in chlorobenzene:

t ½	10h	1h	1min
bei	115°C	134°C	174°C

Storage Maximum storage temperature (Ts max): 40°C

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

Hazardous reactions 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:

PERGAPROP HX-10 PP 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: 0,1 to 1,0 phr

Packaging 20kg cardboard box

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 PERGAPROP HX-10 PP. 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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