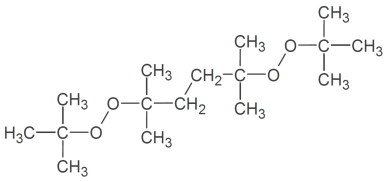
PERGAPROP HX-7,5 PP

Dialkyl peroxide / Polymerization

Description

2,5-Dimethyl-2,5-di-(tert-butylperoxy)-hexane
7.5%, Granules with Polypropylen

PERGAPROP HX-7.5 PP is used for the production of controlled rheology polypropylene (CR-PP).



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

Technical data

Appearance:	**white granules**
Peroxide assay:	**appx. 7.5%**
Active oxygen assay:	**appx. 0.83%**
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-7.5 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: 0,15 to 1,5 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-7,5 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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