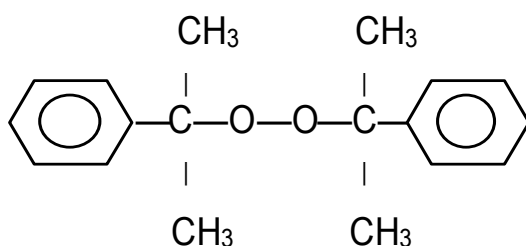


PEROXAN DC

High Polymers
Dialkyl peroxides

Description: Dicumyl peroxide
99% , Crystals

PEROXAN DC is used for the (co)polymerization of styrene. It may also be used as co-agent in the production of flame retardant, expandable polystyrene



Molecular weight: 270,4
CAS No.: 80-43-3

Technical data: Appearance: white crystals
Peroxide assay: min. 99%
Active oxygen assay: min. 5,86%

Bulk density at 20°C: 620 kg/m³

Half life time:

in chlorobenzene:

$t_{1/2}$	10h	1 h	1 min
at	112°C	132°C	172°C

Storage: Maximum storage temperature ($T_{s,max}$): 30°C
Storage stability as from date of delivery: 6 months

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.

Thermal stability: SADT: 80°C
Emergency temperature (T_{em}): 75°C

The SADT 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.

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Application:

Polymerization of styrene:

PEROXAN DC may be used for the polymerization and copolymerization of styrene.
In a mass process PEROXAN DC can be used to increase polymerization rates.

Temperature range: 110 to 165°C
Dosing: 0,02 to 0,1 phr

Coagent in flame retardant polystyrene:

Polystyrene is made flame retardant by the use of halogen-containing additives such as hexabromocyclododecane (PERGASAFE HBCD). PEROXAN DC may be used as a synergistic coagent in combination with PERGASAFE HBCD to produce flame retardant expandable polystyrene.

Packaging:

20 kg Cardboard box

Major decomposition products:

Methane, Acetophenone, 2-Phenylpropanol-2

Safety and handling:

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