

PEROXAN DC

Dialkyl peroxide / Polymerization

DescriptionDicumyl peroxide
99%, Crystallin

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 ½	10h	1h	1min
bei	112°C	132°C	172°C

StorageMaximum storage temperature (Ts max):30°CStorage 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 Polymerization of styrene:

PEROXAN DC may be used for the polymerization and copolymerization of styrene. In a mass

process PEROXAN DB 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 20kg cardboard box

Major decomposition products 2-Phenylpropanol-2, acetophenone, alpha-methylstyrene, Methane

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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