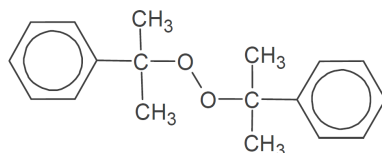


PEROXAN DC-40 PE-G

Dialkyl peroxide / Crosslinking

Description

Dicumyl peroxide
40%, Granules mit polyethylene
PEROXAN DC-40 PE-G is used for the crosslinking of polyethylene.



Molecular weight: **270.4**
CAS No.: **80-43-3**

Technical data

Appearance: **white granules**
Peroxide assay: **appx. 40%**
Active oxygen assay: **appx. 2.37%**
Bulk density at 20°C: **360 kg/m³**

Half life time

in an EPDM compound:

$t_{1/2}$	10h	1h	0,1h
bei	112°C	138°C	162°C

Storage

Maximum storage temperature (Ts max): **30°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

PEROXAN DC-40 PE-G is recommended for the crosslinking of LDPE. LDPE compounds containing PEROXAN DC-40 PE-G combine good processing safety with a fair speed of cure.

Safe processing temperature (t₂): 130°C

Typical crosslinking temperature (t₉₀): 170°C

The safe processing temperature t₂ is defined as the temperature, at which the scorch time is longer than 20 minutes. The typical crosslinking temperature t₉₀ is defined as the temperature at which 90% of the crosslinks in the compound are formed within about 12 minutes.

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-40 PE-G. 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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