Perovion®

Product Name : Perovion® DCP PBC-40B

CAS number : 80-43-3

Chemical Type : Dicumyl peroxide

Business Unit : Organic Peroxides

1. Product Description

Perovion® DCP PBC-40B is a monofunctional organic peroxide supplied as an off-white free-flowing powder containing approximately 40% dicumyl peroxide on an inert carrier. It is designed for polymer crosslinking applications requiring good scorch safety and controlled peroxide decomposition at elevated temperatures.

2. Typical Applications

- Crosslinking of natural rubber
- Crosslinking of synthetic rubbers
- Crosslinking of polyolefins

Rubber compounds containing Perovion® DCP PBC-40B typically exhibit excellent scorch safety. Under certain processing conditions, one-step mixing may be possible, subject to formulation validation.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	Off-white powder	Visual
Assay	%	39.0 – 41.0	Internal
Active oxygen (peroxide)	%	~5.9	Calculated
Concentration (as peroxide)	%	2.31 – 2.43	Internal
Molecular weight (active)	–	270.4	Calculated

Note: Typical values are indicative only and do not constitute a specification.

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4. Recommended Use

Indicative curing characteristics:

- Safe processing temperature: ~130 °C (rheometer ts_2 > 20 min)
- Typical crosslinking temperature: ~170 °C (rheometer t_{90} ≈ 12 min)

Dosage and processing conditions depend on polymer type, formulation, and equipment and should be evaluated and validated by the user prior to production use.

5. Packaging & Logistics

Perovion® DCP PBC-40B is supplied in standard industrial powder packaging formats (e.g., poly-lined cartons), subject to confirmation at the quotation stage.

- Incoterms: FOB / CFR / CIF (as specified in the quotation)
- Lead time: Indicative lead time provided at quotation and confirmed upon order acceptance

6. Quality & Documentation

Each batch of Perovion® DCP PBC-40B is released under Innovexar Quality Assurance standards and is accompanied by a batch-specific Certificate of Analysis (COA).
Safety Data Sheets (SDS) and relevant transport documentation are provided in accordance with destination regulatory requirements. Full batch traceability is maintained through digitized QA documentation systems.

7. Handling & Storage

Perovion® DCP PBC-40B should be stored in its original, tightly closed containers in a dry, well-ventilated area away from heat sources and direct sunlight.

- Recommended maximum storage temperature (Ts max.): ≤30 °C

Avoid contact with reducing agents (e.g. amines), acids, alkalis, and heavy metal compounds (e.g. accelerators, driers, metal soaps). Refer to the SDS for detailed safety and handling instructions.

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