Perovion®

Product Name : Perovion® TBPIN L42

CAS number : 13122-18-4

Chemical Type : tert-Butyl peroxy-3,5,5-trimethylhexanoate

Business Unit : Organic Peroxides

1. Product Description

Perovion® TBPIN L42 is a high-purity liquid organic peroxide initiator based on tert-butyl peroxy-3,5,5-trimethylhexanoate. It is designed for free-radical polymerization processes over a wide temperature range and is suitable for polymer production, acrylic systems, and selected thermoset composite applications.

2. Typical Applications

- High-pressure ethylene polymerization (autoclave and tubular processes)
- Solution, bulk, and suspension polymerization of acrylates and methacrylates
- Styrene (co)polymerization
- Selected thermoset composite and acrylic applications

Perovion® TBPIN L42 is typically applied alone or in combination with other peroxides to achieve a broad polymerization temperature window.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	Clear liquid	Visual
Assay	%	≥97.0	Internal
Active oxygen	%	~6.7 – 7.0	Internal
Density (20 °C)	g/cm³	~0.90	Internal
Viscosity (20 °C)	mPa·s	~5	Internal

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Property	Unit	Typical Value	Test Method
Color	Pt-Co	≤50	Internal
Hydroperoxides (as TBHP)	%	≤0.10	Internal

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

4. Recommended Use

The dosage and use conditions of Perovion® TBPIN L42 depend on polymer system, reaction temperature, and processing method. Initiator concentration and reaction profiles should be evaluated and validated by the user prior to production use. Standard organic peroxide handling procedures must be followed.

5. Packaging & Logistics

Perovion® TBPIN L42 is supplied in standard industrial liquid packaging formats, subject to confirmation at the quotation stage.

Minimum order quantities depend on packaging configuration and destination requirements.

- 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® TBPIN L42 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® TBPIN L42 should be stored in its original, tightly closed containers in a dry, well-ventilated area away from heat sources and direct sunlight.Avoid contact with reducing agents, acids, alkalis, amines, or heavy metal compounds. Refer to the SDS for detailed safety and handling instructions.

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