Perovion®

Product Name : Perovion® TBEC L11

CAS number : 34443-12-4

Chemical Type : tert-Butylperoxy 2-ethylhexyl carbonate (TBEC)

Business Unit : Organic Peroxides

1. Product Description

Perovion® TBEC L11 is a tert-butylperoxy 2-ethylhexyl carbonate (TBEC) organic peroxide designed for medium-to-high temperature polymerization processes. It provides controlled radical generation and is suitable for use in mass and suspension polymerization systems where balanced reactivity and efficient conversion are required.

2. Typical Applications

Perovion® TBEC L11 is typically used in polymer production processes such as the polymerization and copolymerization of styrenics. It may also be applied in polymer crosslinking, thermoset composites, and acrylics systems depending on formulation and process design. Actual suitability and performance depend on the specific resin or monomer system, initiator combination, and operating conditions applied by the user.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	Liquid	Visual
Appearance	–	Clear liquid	Visual
Active oxygen content	%	~6.2–6.5	Internal Method
Assay	%	≥95.0	Internal Method
Density (20 °C)	g/cm³	~0.93	ASTM D4052
Viscosity (20 °C)	mPa·s	~5.8	Internal Method

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

4. Recommended Use

Perovion® TBEC L11 is intended for use as a free-radical initiator in polymerization systems operating at elevated temperatures. Initiator dosage, temperature profile, and residence time should be determined and validated by the user based on specific formulation and reactor requirements. Standard organic peroxide handling procedures must be followed. Detailed guidance on safe handling and storage is provided in the Safety Data Sheet (SDS).

5. Packaging & Logistics

Perovion® TBEC L11 is supplied in standard industrial packaging formats, subject to confirmation at the quotation stage. Minimum order quantities depend on packaging configuration and destination requirements. The product is offered under standard Incoterms such as FOB, CFR, or CIF, as specified in the quotation. Indicative lead times are provided at quotation and confirmed upon order acceptance.

6. Quality & Documentation

Each batch of Perovion® TBEC L11 is released under Innovexar Quality Assurance standards and is accompanied by a batch-specific Certificate of Analysis (COA). Safety Data Sheets 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® TBEC L11 should be stored in its original, tightly closed containers, away from heat sources and direct sunlight. Storage temperatures should be maintained within recommended limits to preserve product integrity. Contamination must be avoided, and peroxide-specific safety procedures should be strictly observed during handling and storage. Refer to the SDS for detailed safety instructions.

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