Perovion®

Product Name : Perovion® TBPEH L21

CAS number : 3006-82-4

Chemical Type : tert-Butyl peroxy-2-ethylhexanoate

Business Unit : Organic Peroxides

1. Product Description

Perovion® TBPEH L21 is a liquid perester organic peroxide designed for curing unsaturated polyester (UP) resin systems at elevated and high temperatures. It is widely used in hot-press molding formulations such as SMC and BMC, and can also function as a kicker in pultrusion and SMC/BMC systems. In combination with cobalt accelerators, it is applicable for curing UP resins from approximately 60 °C and above, subject to formulation.

2. Typical Applications

- SMC / BMC hot-press molding
- Pultrusion (as a kicker)
- Filament winding
- Air-drying lacquers, diplacquers
- Wall panels and related thermoset composite processes

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	Clear liquid	Visual
Assay	%	≥97.0	Internal
Active oxygen	%	≥7.17 (typ. ~7.40)	Internal
Density (20 °C)	g/cm³	~0.900	Internal
Viscosity (20 °C)	mPa·s	~4.3	Internal

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Property	Unit	Typical Value	Test Method
Color	Pt-Co (APHA)	≤20	Internal
Molecular weight	–	216.3	Calculated

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

4. Recommended Use

Perovion® TBPEH L21 is typically used for curing UP resins in the temperature range of 120–160 °C (e.g., SMC/BMC hot pressing). As a high-reactivity peroxide, dosage and accelerator systems should be evaluated and validated by the user to balance scorch safety and cure speed. Standard organic peroxide handling procedures must be followed.

5. Packaging & Logistics

Perovion® TBPEH L21 is supplied in standard vented 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® TBPEH L21 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® TBPEH L21 should be stored in its original, tightly closed containers in a dry, well-ventilated area away from heat sources and direct sunlight.

Recommended storage temperature range: ~−30 °C to 10 °C (to prevent crystallization and maintain quality).

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