



ECOSE® Uncured

Technical Data Sheet

04/2024



Description

Knauf ECOSE® Uncured Insulation is manufactured as a rolled-up blanket of inorganic glass fibers that are loosely bonded together with a thermosetting binder system. Uncured insulation is an “in-process” material, which is shipped in the wet and uncured state. It is designed to be further processed, usually by compression molding or match metal die molding, and then heat cured into a desired shape and density. Knauf ECOSE® Uncured Insulation uses ECOSE® binder.

Application

Knauf ECOSE® Uncured Insulation is an “in-process” material designed to be cut, processed, and cured into a desired shape and density using compression molding. Knauf ECOSE® Uncured Insulation can be fabricated into components used in the following applications:

- Transportation – headliners, hoodliners, dash insulators, heat shields, and engine covers
- Interior Office – tack board, wall panels, and ceiling diffusers
- Appliance – acoustical panels and heat shields
- Architectural – wall panels and partitions
- Acoustical – sound suppression panels, liners, and shields
- Industrial – filter tube elements, rigid plenums, air ducts, and turning vanes

Forms Available*

Property	Value
Density (lb/ft ³)**	1.25 – 3.0 (increment of 0.25)
Length (ft)	50 to 120
Width (in)	48 -82 (even inch only)
Weight (lbs)	65 or under
Thickness (in)	1***

*: All Knauf ECOSE® Uncured Insulation is shipped as a blanket with clear poly interleaving and rolled on a cardboard core.

** : The presence of binder globs and voids is inherent to the process used.

***: Actual thickness will vary depending on the manufactured density and can not be guaranteed.

Storage Conditions and Shelf Life

Condition of Storage	Shelf Life*
Inside a building at 40 - 70°F. Maximum 2 days in a truck for transport only	3 months
Stored in a building under 90°F, but above 70°F	3 weeks

*: Maximum 2 days in a non-translucent truck (< 95 °F) for transport only

Packaging

- Knauf ECOSE® Uncured Insulation is packaged with a poly interleaving and rolled around a central core. The roll is taped closed and placed in a heavy poly bag, labeled for identification purposes, and closed with a plastic tie.

Processing

- The performance of Knauf ECOSE® Uncured Insulation is greatly influenced by the customer manufacturing process. The individual customer must establish, optimize, and control their manufacturing process to assure the uncured insulation meets the requirements of their manufacturing process and the final molded part.
- Recommended molding temperature range is 350F to 425F, higher temp (but under 450F) is acceptable but the molding time should be tested out and minimized.
- The customer must establish an adequate cure time and temperature schedule based on the requirements of the final part and the manufacturing process. Part design, thickness, density, and mold temperature will all influence the cure time.
- The molded part should be qualified through the final customer to validate that the final molded part is acceptable for the application.

This product is covered by one or more U.S. and/or other patents.

See patent www.knaufnorthamerica.com/patents

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Check with your Knauf Insulation Territory Manager to ensure information is current.

The chemical and physical properties of this product represent average values determined in accordance with accepted test methods. The data is subject to normal manufacturing variations. The data is supplied as a technical service and is subject to change without notice. References to numerical flame spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

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