Technical Data Sheet

LOCTITE® HB S109 ECO PURBOND

February 2025

This Technical Data Sheet is only applicable in accordance with the Regulatory Annex for LOCTITE® HB S109 ECO PURBOND and the Application Instructions for face bonding or finger jointing for the LOCTITE® HB S (ECO) PURBOND-line, respectively.

Product description

LOCTITE® HB S109 ECO PURBOND provides the following product characteristics:

Technology	Polyurethane
Product type	Wood adhesive
Application	Engineered Wood
Components	One-component
Basis	Isocyanate prepolymer
Condition	Solvent-free, formaldehyde-free
Appearance	Beige, liquid, (after curing: wood tone, solid)
Cure	Air humidity and moisture in the wood

Application areas

Manufacturing of Engineered Wood Products

Product properties

- Strong, non-brittle adhesive film
- Resistant to weak alkalis, acids and solvents
- Good flow properties
- Fluorescent
- Approved to various certificates and registrations, see Regulatory Annex

Technical data

LOCTITE® HB S109 ECO PURBOND	
Solid content, %	
free from fibers and abrasive fillers	100
Viscosity, Brookfield - 20 °C , mPa.s Spindle 6, speed 20 rpm, - measured between 16 to 36 hours after production	18000 to 32000

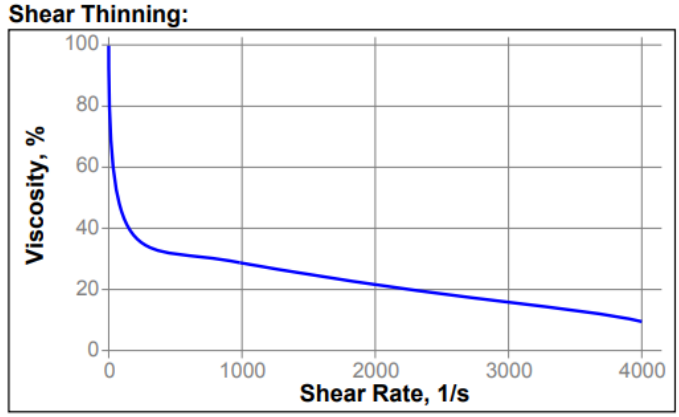
Typical properties

Density, g/cm³	1.16

Slight foaming of the adhesive during hardening is caused by the curing reaction and is normal.

The adhesive shows shear thinning behaviour. Please see an exemplary viscosity – shear rate – relationship in the graph below.

Shear Thinning:



Directions for use

Preliminary statement

Prior to use it is necessary to read the **Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Protection and cleaning

Safety precautions

The use of protective gloves is highly recommended. Best practice makes gloves and safety glasses mandatory when handling the adhesive or any chemicals associated with the manufacturing process.

Cleaning

Prior to bringing a plant into initial operation, Henkel recommends the use of release agents to prevent adhesive adhering to equipment and tools, e.g. LOCTITE RELEASE AGENT PURBOND. Henkel can make recommendations upon request, but all release agents should be appropriate for the adhesive and materials to which they are applied.

Storage

Store in the original tightly closed packaging in a cool, dry place.

Classification

Please refer to the corresponding **Safety Data Sheet** for details on:

Hazards identification
Transport information
Regulatory information

Disclaimer
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