



# Performance Test

## HL-Freezer vs Zebra 4000D

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# Objective

- To conduct tests comparing HouseLabels.com vs Competitors' Products

## Products :

- HouseLabels.com HL-Freezer
- Zebra Z-Select 4000D

## Test Criteria :

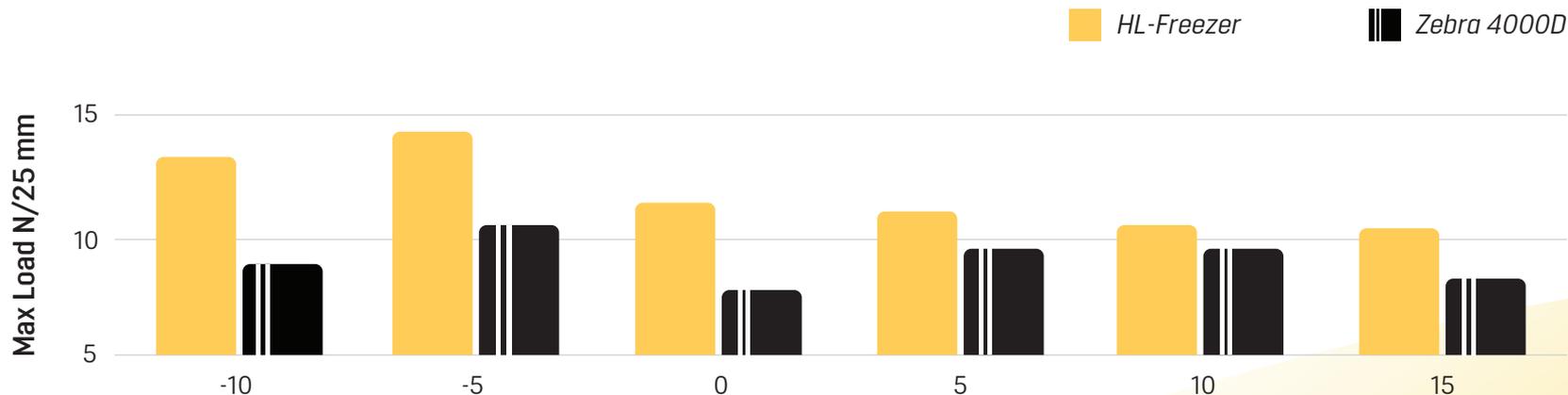
- Physical properties
- Adhesive performance
  - Application Temperature
  - Service Temperature
- Printability
- Environmental resistance

# Physical properties

	Zebra 4000D	HouseLabels.com HL-Freezer
Adhesive type	Emulsion	Hotmelt
Face (gsm)	79.3	80.0
Face caliper ( $\mu\text{m}$ )	78.8	82.2

# Adhesive Performance - Application Temperature

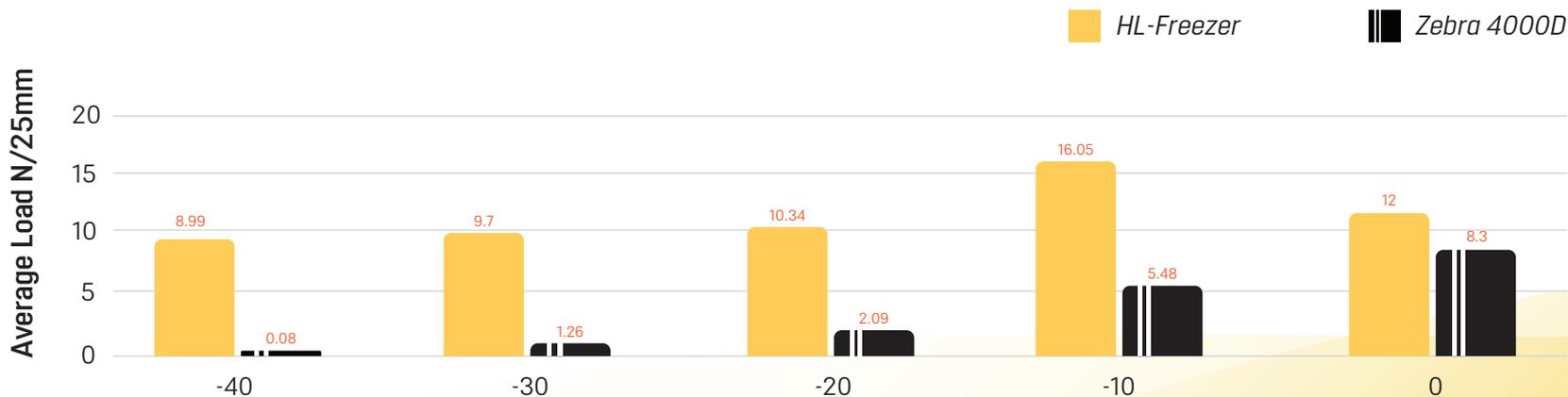
## Loop Tack Comparison



- HL-Freezer samples have comparatively higher looptack than Zebra 4000D

# Adhesive Performance - Service Temperature

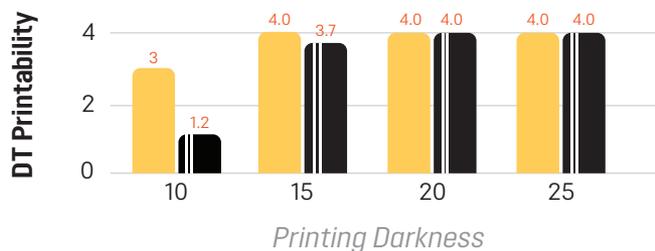
## Peel Adhesion Comparison



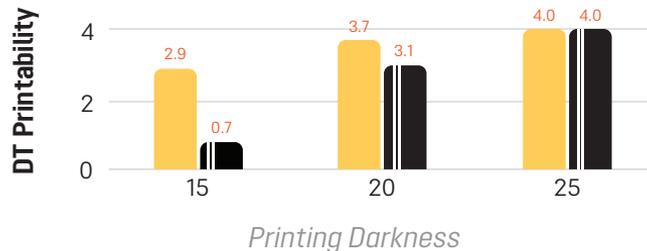
- HL-Freezer samples have comparatively higher peel adhesion than Zebra 4000D across all temperatures.

# DT Printability

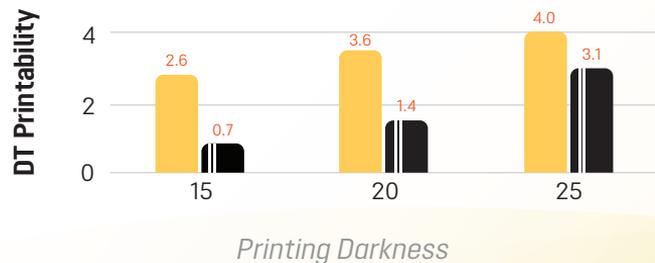
## DT Printability at 4"/s



## DT Printability at 8"/s



## DT Printability at 12"/s



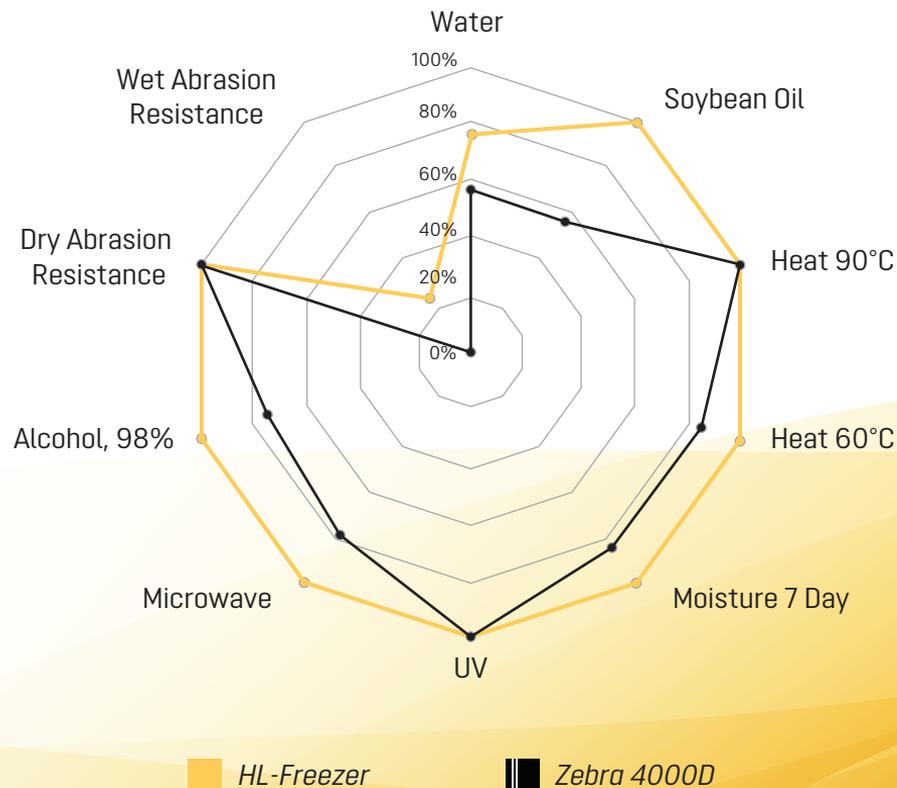
HL-Freezer Zebra 4000D

- HL-Freezer printability is better even at lower printer darkness settings across different print speeds at 4"/s, 8"/s and 12"/s

# Environmental Resistance - Additional Testing

## Environmental Resistance

- HL-Freezer shows similar resistance in dry abrasion, heat and UV.
- HL-Freezer shows better resistance in alcohol, microwave, oil and moisture, hence should perform better in retail applications where these contaminants are common.





Thank you



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