



Adhesive Data Sheet

EP-7 Freezer Grade

General Description: EP-7 Freezer Grade is a permanent adhesive engineered for robust performance in cold temperature applications. EP-7 Freezer Grade is well suited for shipping and inventory control labels, drum labels, and frozen food labels applied at temperatures as low as -20° F, while maintaining high bond strength through a broad range of temperatures. Typical compatible substrates include corrugated paper and fiberboard, stretch wrap, low and high density polyethylene, foamed and clear polystyrene, and other difficult LSE and HSE plastics.

Adhesion

Substrate	Loop Tack ¹	Shear ²	Peel Adhesion ³
Stainless Steel	2.0 lbs	>132 minutes	2.6 lbs

Usage

Application Temperature Minimum:	-20° F (-28° C)
Service Temperature:	-40°F to +250°F (-40°C to +121°C) subject to face stock limitations
FDA Compliance:	The dry film components of EP-7 Freezer Grade comply with the Code of Federal Regulations, Title 21, Section 175.1054

Environment

Moisture & Humidity Resistance:	Excellent
Sunlight & Weather Resistance:	Excellent
Heat Resistance:	Excellent
Chemical Resistance:	Acids: Excellent Alkalis: Excellent Oils: Excellent

Notes:

1. TLMI-LIB 1, 1 mil polyester face stock, 1 mil of adhesive
2. ASTM-D-3654, PSTC-7, 1 mil polyester face stock, 1 mil of adhesive, ½" x ½" with 500 gm static load
3. ASTM D-3330, PSTC-1, 1 mil polyester face stock, 1 mil of adhesive
4. Compliance with 21 CFR 175.105 permits the use of this adhesive in applications for which the adhesive either (a) is separated from the food by a functional barrier, which will prevent the migration of any of the adhesive components to the food, or (b) has incidental contact with food limited to the trace amount at the seams or the edges of the label.

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