Material Specification Sheet

Product:

M-431 - DirectPrint[TM] (VL, Permanent Adhesive, No Topcoat)

Description:

Consists of standard direct thermal, visible light (VL), uncoated, paper facestock with a general-purpose permanent acrylic adhesive

Recommended Applications:

General-purpose direct thermal bar coding applications are ideal (especially dry conditions) for this label. Exposure to contaminants such as water, oils, alcohol and other liquids can affect the thermal layer. FDA approved for indirect food contact (21 CFR 175.105). Approved for use in applications for which the adhesive either is separated from the food by a functional barrier or has incidental contact with food limited to the trace amount of the seams or the edges of the label.

Facestock:

Direct thermal, VL, uncoated paper

		Value	Units	Test Method
Caliper:		3.2	mil	ASTM D-374
Tensile:	MD	30	lb/in^2	ASTM D-882
	CD	14.5	lb/in^2	ASTM D-882
Tear:	MD	54	grams	ASTM D-1922
	CD	57	grams	ASTM D-1922
Stiffness:	MD	93	mg	TAPPI T-489
	CD	46	mg	TAPPI T-489
Initial Activation Temp:		190° +/- 9°	Fahrenheit	

Adhesive:

A general-purpose permanent acrylic

	Value	Units	Test Method
Application temp:	+25°	Fahrenheit	
Service temp:	-65° to +200°	Fahrenheit	

Liner:

Super calendared 40# kraft release coated-one-side

		Value	Units	Test Method
Basis Weight:		42	lb/rm (3000 sq.ft.)	TAPPI
Caliper:		2.5	mil	ASTM D-374
Tensile:	MD	41	lb/in. width	ASTM D-882
	CD	17	lb/in. width	ASTM D-882
Tear:	MD	37	grams	ASTM D-1922
	CD	45	grams	ASTM D-1922

Shelf Life:

One year, under standard storage and humidity conditions