



DuPont™ Kapton® BCL-Y

POLYIMIDE FILM

Technical Data Sheet

DuPont™ Kapton® BCL-Y is a two-sided, printable, homogeneous film that possesses excellent hydrolytic and chemical durability. Kapton® BCL-Y has the same thermal, chemical and electrical properties of general purpose Kapton® HN.

Kapton® BCL-Y is pigmented to provide contrast and eliminate the need for opaque coatings. Printing on BCL-Y can be accomplished with thermal transfer and laser printing.

The non-wicking property of BCL-Y makes it an excellent choice for use as a pressure sensitive label in harsh chemical environments and extreme temperatures.

Applications

- Pressure Sensitive Labels
 - high temperature
 - cryogenic storage
 - harsh chemical environments
 - printed circuit board identification

Product Specifications

Kapton® BCL-Y is manufactured, slit and packaged according to the tailored film product specifications listed in H-15352.

Certification

Kapton® BCL-Y meets ANSI standards for print contrast signals and minimum reflectance ratios for bar code print quality.



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Table 1
Typical Properties of Kapton® BCL-Y Film

Property	Unit	Typical Value	Test Method
Mechanical			
Tensile Strength	Kpsi/Mpa	26/180	ASTM D-882
Tensile Modulus	Kpsi/Gpa	400/2.8	ASTM D-882
Elongation to Break	%	90	ASTM D-882
Specific Gravity	g/cc	1.58	ATM D-1505-90
Elongation	%	110	ASTM D-882
Optical Density		1.00	
Gloss		105.0	
Surface Energy	dynes/cm	58	
Electrical			
Dielectric Strength	V/mil	4500	ASTM D-149
Volume Resistivity	ohm/sq	>1 x 10 ¹³	IPC-TM-650
Thermal			
Meltpoint, polyimide	°C	none	ASTM E-794
Flammability, UL rating		94 V0	UL-94
Chemical (polyimide only)			
Moisture Absorption at 100% RH	%	~2.6	ASTM D-570

For more information on DuPont™ Kapton® or other High Performance Materials, please contact your local representative, or visit our website for additional regional contacts:

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