

# Technical Data Sheet

545ND-1563 – Non-Detectable Tote Bin Covers



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This Technical Data Sheet is applicable to the following Products:

545ND-1563-P01	Non-Detectable Tote Bin Covers Blue Roll 250 / 100
545ND-1563-P03	Non-Detectable Tote Bin Covers Red Roll 250 / 100
545ND-1563-P04	Non-Detectable Tote Bin Covers Green Roll 250 / 100
545ND-1563-P05	Non-Detectable Tote Bin Covers Yellow Roll 250 / 100
545ND-1563-P01	Non-Detectable Tote Bin Covers Purple Roll 250 / 100

## Non-Detectable Tote Bin Covers for Food Industry usage

Detectamet non-detectable tote bin covers are specifically designed to cover Tote Bin/Eurobin/Dump Buggies to prevent foreign body contamination.

The food grade materials used are compliant to the FDA/EU regulation, for intended use in proximity with food processing, handling and packing operations.

## Features and Benefits

- Available in rolls of 100 & 250 sheets
- Available in 5 colours (one for each day of the week)
- Suitable for 200/300 litre (400lb./600lb.) tote bins/eurobins/dump buggies
- Easily identifiable colours
- Ideal for multi-temperature environments
- Supports safe storage of raw ingredients
- Recyclable cardboard core

## Material Specification

Cover Size:	665mm x 830mm (+/- 5%)
Thickness:	38mu (1.5MILS) (+/- 5%)
Gusset:	95mm (3.74") (+/- 5%)
Material Type:	Low-density Polyethylene
Slip Coefficient Friction:	Medium
Clarity:	Solid colours – Blue, Green, Purple, Red, Yellow
Core Size & Material:	715mm x 45mm x 5mm – Cardboard
Printed:	White Detectamet logo printed on outer protective sleeve
Conversion	Perforated on a roll – 100 or 250 covers
Additional Information:	Food use approved

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	1.9	g/10 min	ISO 1133-1
Density	0.924	g/cm³	ISO 1183-1
<b>Mechanical</b>			
Tensile Modulus	260	MPa	ISO 527-1, -2
Tensile Stress at Yield	11	MPa	ISO 527-1, -2
<b>Film</b>			
Dart Drop Impact Strength, F50	110	g	ASTM D1709
<b>Tensile Strength</b>			
MD	25	MPa	ISO 527-1, -3
TD	21	MPa	ISO 527-1, -3
<b>Tensile Strain at Break</b>			
MD	250	%	ISO 527-1, -3
TD	600	%	ISO 527-1, -3
Coefficient of Friction	<0.2		ISO 8295
<b>Impact</b>			
Failure Energy	4	J/mm	DIN 53373
<b>Thermal</b>			
Vicat Softening Temperature, (A/50)	94	°C	ISO 306
Peak Melting Point	111	°C	ISO 11357-3
<b>Optical</b>			
Haze, (50 µm)	<8	%	ASTM D1003
<b>Gloss</b>			
(20°)	>50		ASTM D2457
(60°)	>100		ASTM D2457
<b>Additive</b>			
Slip, Erucamide	500	ppm	LYB Method
Antiblock, Natural Silica	1000	ppm	ISO 3451-1

#### Additional Information

#### Test Specimen

#### Film

Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 2.5:1.

#### Processing Parameters

Extrusion Temperature

160-200 °C

## **Migration Testing and Compliance Overview**

The raw materials to produce this product are food contact safe and in-line with the below regulations.

### **Non-Detectable Tote Bin Covers Comply with applicable requirements**

EU Framework regulation EC1935/2004 and EC1895/2005 on materials and articles intended to come in to contact with food.

Regulation EU2010/2011 updated on Regulation on EU321/2011 and EU1282/2011 on good manufacturing practice for materials and articles intended to come in to contact with food.

Regulation on recycled plastics EC282/2008 and active and intelligent packaging regulation EC450/2009.

### **Resistance to Tearing**

The food grade material that used in manufacturing our products is designed to be resistant to tearing when used as specified.

### **Compliance with Overall Migration Limit (OML)**

No products are tested on cost grounds. Our suppliers confirm that no additives are present in their polymers, and we do not add any Specific Migration Limit (SML).

### **Plastic Film**

The plastic film with the following legislation,  
EU Directive and amendments also regulation EC282/2008 on recycled plastics and EC178/2002 traceability.

### **Disclosure of Identity of Substances with Restrictions**

No restricted substances are in the products.

### **Dual Use Additives**

According to directive 2004/19/EC we do not use additives in plastics subject to restriction in food through an authorisation as food additive or flavouring.

### **Printing Inks**

No transfer to food contact side is possible with tubed material.

### **Heavy Metals**

No heavy metals are used during the formulation or final manufacture of this product.

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