

July, 2020

3M™ Durable Protective Film 7760AM

Product Description

3M™ Durable Protective Film 7760AM is a 2-mil high clarity PET film with removable adhesive, protected by an antimicrobial, scratch, abrasion and chemical resistant hardcoat. The top clear hardcoat layer has been treated with an EPA-registered silver ion antimicrobial agent to protect the film from a broad spectrum of bacteria, mold and mildew. The silver ion antimicrobial control mechanism within the hardcoat utilizes an active silver zeolite carrier that interrupts metabolism of cells and prevents cell reproduction within the film itself. This product utilizes 3M™ Adhesive R3500, which is designed for use on smooth surfaces such as glass, metal and plastic (including polystyrene) and offers excellent UV resistance, good initial tack, and long term adhesion with clean removability and is an excellent alternative to static cling. Note: As a removable adhesive, performance may vary depending upon the substrate to which it is applied. Therefore, extensive testing should be conducted prior to use and textured surfaces should be avoided. Not appropriate for children's toy or sticker applications.



Product Features

- Hardcoat utilizes an EPA-registered silver ion antimicrobial additive to protect the film
- Resistant to various cleaners such as bleach, isopropanol, hydrogen peroxide
- High-clarity PET film provides robust protection
- Removable Adhesive
- Non-toxic, UV stable
- Transmittance of Facestock (ASTM D1003): 90.6 %
- Dimensional Stability of Facestock after 150 °C for 30 minutes: MD: 1.6 % & CD: 0.4%

Disclaimer: This product contains an antimicrobial agent to inhibit the growth of microorganisms within the film itself. This product does not protect users or others against bacteria, viruses, germs or other food-borne or disease-causing organisms. Always clean this product thoroughly after use.

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Physical Properties

Property	Values		Test Condition
Facestock	Clear Polyester		
Facestock Thickness	0.05 mm	2 mil	
Adhesive	R3500 Rem.16		
Adhesive Thickness	0.02 mm	0.8 mil	
Liner	Clear Polyester		
Liner Thickness	0.038 mm	1.5 mil	
Abrasion Resistance	Change in Haze(Facestock Only): 1.8% after Taber Abrasion - CS10, 500 grams, 100 cycles		
Elongation at Break	130 %		Machine direction
Elongation at Break	120 %		Cross direction

Weather Resistance

Delta E of Facestock : 0.6 after 72 hours QUV
 Delta E: 1.1 after 15 days QUV

Typical Cured Characteristics

Hardness

0000 Steel Wool Scratch Resistance: No Visual Change (DTM 78)

Note

Calipers are nominal values

Typical Performance Characteristics

Property	Values		Method
Tensile Strength	MD: 27,000 lb/in ² & TD: 28,400 lb/in ²		
Service Temperature Range	-29 to 68 °C	-20 to 155 °F	

Table continued on next page

Typical Performance Characteristics (continued)

Property	Values		Method
Minimum Application Temperature	5 °C	40 °F	
Haze	(Facestock only) 3.1 %		ASTM D1003
Clarity	(Facestock Only) 90.5 %		ASTM D1003

Typical Environmental Performance

Solvent Resistance:

**Resistance to Cleaners,
100 Cycles, Crockmeter:**

Isopropanol	No visual change
Windex	No visual change
Clorox	No visual change
Clorox Wipes	No visual change
Lysol	No visual change
Hydrogen Peroxide	No visual change
Soap & Water	No visual change
Simple Green	No visual change

Storage and Shelf Life

Store under normal conditions of 70°F (21°C) and 50% relative humidity. To minimize the effects of humidity on the products, package the die-cut and printed stock in polyethylene bags. Low density polyethylene (2-4 mils) can help prevent humidity penetration. To obtain best performance, use this product within 12 months from the date of manufacture.

Family Group

	7750AM	7760AM
Facestock	Clear Polyester	Clear Polyester
Facestock Thickness (mm)	0.05	0.05
Adhesive	400	R3500 Rem.16
Adhesive Thickness (mm)	0.03	0.02
Liner	Clear Polyester	Clear Polyester
Liner Thickness (mm)	0.038	0.038
Hardness	0000 Steel Wool Scratch Resistance: No Visual Change (DTM 78)	0000 Steel Wool Scratch Resistance: No Visual Change (DTM 78)

Information

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