



Smooth Cling Films

7717SW • 7718SW • 7719SW

Technical Data

April, 2012

Product Description

3M™ Smooth Cling Films utilize a unique acrylic adhesive system that allows the adhesive to flow on to a surface with little to no application pressure. The self wetting adhesive is nearly ultra-clear which provides excellent transparency. These protective label stocks are ideal for use in many industrial and commercial applications. Some typical applications include: printed window advertisements and protecting mobile handheld displays during shipment from the manufacturer to end user, printed clear labels, protective overlaminates, and surface protection.

Construction

Product	Face Stock	Adhesive	Release Liner
3M™ Smooth Cling Film 7717SW	2 mil (0.05 mm) Clear PET	1 mil (0.025 mm) 1200 Adhesive (Low Adhesion)	2 mil (0.05 mm) White PET
3M™ Smooth Cling Film 7718SW	2 mil (0.05 mm) Clear PET	1 mil (0.025 mm) 1250 Adhesive (Medium Adhesion)	2 mil (0.05 mm) White PET
3M™ Smooth Cling Film 7719SW	5 mil (0.127 mm) Clear PET	1 mil (0.025 mm) 1200 Adhesive (Low Adhesion)	2 mil (0.05 mm) White PET

*Note: The caliper listed is based on a calculation from manufacturing controlled adhesive coat weights using a density of 1.012 g/cc.

Features

- Ultra-clear, high transparency film and adhesive combination – suitable for display panels.
- Removable adhesive – easily removable from many surfaces with no adhesive residue.
- PET lined product allows for die-cutting to any shape and is suitable for high-speed, automatic dispensing.
- PET face material – much higher temperature resistance than PE protective Films.
- Before application the surfaces must be free from oil, fat, dust and solvents. Best results are achieved when applied between 50°F and 104°F.
- The product has a high transparency (low haze).
- The adhesive is cleanable with water so it may be re-used.

Application Ideas

- Protect window apertures and displays in electronics applications.
- Temporary protection of sensitive surfaces against dirt, dust and damage during processing, storage and mounting etc.
- Low level of adhesion and is suitable for protection of many surfaces including: Glass, Varnished / hardcoated surfaces, Aluminum and Plastic surfaces.
- Printed window film and advertisements

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Typical Physical Properties

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

90° Peel Adhesion (20 minute dwell, 12 in./min. [305 mm/min])

3M™ Smooth Cling Films	Stainless Steel		Glass		Polycarbonate	
	g/in.	g/25.4 mm	g/in.	g/25.4 mm	g/in.	g/25.4 mm
7717SW	25	25	10	10	10	10
7718SW	75	75	45	45	20	20
7719SW	25	25	25	25	10	10

Liner Release

3M™ Smooth Cling Films	g/in.	g/25.4 mm
7717SW	5	5
7718SW	25	25
7719SW	20	20

Optics (without liner) ASTM D1003

Haze <2% Typical

Environmental Aging Tests

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

Environmental Aging to glass. Tests carried out at conditions noted below. After test samples left at standard conditions for 2 hours, then evaluated. Standard conditions are 23°C and 50% relative humidity.

3M™ Smooth Cling Films	16 hours at -40°F		16 hours at 185°F		Temperature cycling. -40°F 2 hr. 185°F 2 hr. (5 cycles)		Temperature and humidity cycling. 90°F 90% RH 2 hr. -131°F 2 hr. (6 cycles)	
	g/in.	g/25.4 mm	g/in.	g/25.4 mm	g/in.	g/25.4 mm	g/in.	g/25.4 mm
7717SW	45	45	50	50	30	30	30	30
7718SW	90	90	115	115	80	80	70	70
7719SW	10	10	40	40	10	10	5	5

Printing

The polyester film is designed with a printable surface suitable for printing instructions, promotional messages or bar codes via thermal transfer and conventional flexographic printing methods.

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Storage Store at room temperature conditions of 72°F (22°C) and 50% relative humidity.

Shelf Life If stored under proper conditions, product retains its performance and properties for one year from date of manufacture.

Technical Information The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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ISO 9001:2008

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