



3M™ Conformable Double Coated Tape 93420, 93425, 93430

Product Description

3M™ Conformable Double Coated Tape 93420, 93425, 93430 are high-performance double-coated tapes specifically designed for the bonding of Touch-Panel modules to device housings (“Lens” or “Window” Bonding). These products incorporate a unique energy absorbing carrier film and pressure-sensitive adhesive that provides an exceptional balance of properties required for demanding applications. 3M™ acrylic adhesive provides good bond strength to most surfaces, including printed inks.

Key Features

- Excellent anti-lifting properties
- Great drop performance is obtained from the energy absorbing core
- Chemical Resistant to a variety of household chemicals
- Great peel adhesion to both LSE and HSE surfaces

Product Construction/Material Description

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

3M™ Conformable Double Coated Tape 93420, 93425, 93430					
Construction Information	PSA Faceside Adhesive Type Thickness	Carrier Type Thickness	PSA Backside Adhesive Type Thickness	Liner Color, Type Caliper	Total Thickness w/o Liner
93420	Acrylic Adhesive 0.0375 mm (1.5 mil)	Energy Absorbing Core, Black 0.125 mm (5 mil)	Acrylic Adhesive 0.0375 mm (1.5 mil)	PCK 0.106 mm (4.2 mil)	0.20 mm (8 mil)
93425	Acrylic Adhesive 0.0625 mm (2.5 mil)	Energy Absorbing Core, Black 0.125 mm (5 mil)	Acrylic Adhesive 0.0625 mm (2.5 mil)	PCK 0.106 mm (4.2 mil)	0.25 mm (10 mil)
93430	Acrylic Adhesive 0.0875 mm (3.5 mil)	Energy Absorbing Core, Black 0.125 mm (5 mil)	Acrylic Adhesive 0.0875 mm (3.5 mil)	PCK 0.106 mm 4.2 mil)	0.30 mm (12 mil)

* **Note 1:** Faceside (FS) adhesive is on the interior of the roll, exposed when unwound.

* **Note 2:** Backside (BS) adhesive is on the exterior of the roll, exposed when liner is removed.

Applications

- Lens Bonding Applications
- Electronic Device Bonding

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Application Techniques

For maximum bond strength the surfaces should be thoroughly cleaned with a 50:50 mixture of isopropyl alcohol and water. Consult manufacturer's directions for use and precautions when using cleaning solvents. Ideal tape application is accomplished when temperature is between 21° and 38°C (between 70° and 100°F) and the bond is allowed to dwell 72 hours. Initial tape application to surfaces at temperatures below 10°C (50°F) is not recommended.

Typical Physical Properties and Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes. Final product specifications and testing methods will be outlined in the product's Certificate of Analysis (COA) that is shipped with the product.

3M™ Marketplace Name and Product Number												
Product number	93420				93425				93430			
Adhesive	Acrylic				Acrylic				Acrylic			
Tape Thickness	0.20 mm				0.25 mm				0.30 mm			
Adhesion 15 min dwell @ RT	oz/in	N/cm	kg/25.4 mm		oz/in	N/cm	kg/25.4 mm		oz/in	N/cm	kg/25.4 mm	
Modified ASTM D-3330	SS	85	9.3	2.4	SS	115	12.6	3.3	SS	125	13.7	3.6
180 degree peel	PC	105	11.5	3.0	PC	120	13.1	3.4	PC	140	15.3	4.0
2 mil PET backing	ABS	95	10.4	2.7	ABS	110	12.0	3.1	ABS	130	14.2	3.7
	Glass	100	10.9	2.8	Glass	115	12.6	3.3	Glass	140	15.3	4.0
	PP	85	9.3	2.4	PP	100	10.9	2.8	PP	135	14.8	3.8
Adhesion 72 hr dwell @ RT	oz/in	N/cm	kg/25.4 mm		oz/in	N/cm	kg/25.4 mm		oz/in	N/cm	kg/25.4 mm	
Modified ASTM D-3330	SS	100	10.9	2.8	SS	120	13.1	3.4	SS	130	14.2	3.7
180 degree peel	PC	105	11.5	3.0	PC	120	13.1	3.4	PC	160	17.5	4.6
2 mil PET backing	ABS	100	10.9	2.8	ABS	120	13.1	3.4	ABS	135	14.8	3.8
	Glass	100	10.9	2.8	Glass	115	12.6	3.3	Glass	140	15.3	4.0
	PP	110	12.0	3.1	PP	115	12.6	3.3	PP	150	16.4	4.3
Shear Strength at RT												
Modified ASTM D-3654 1000 grams	>10,000 Minutes				> 10,000 Minutes				>10,000 Minutes			
Shear Strength at 158F (70C)												
Modified ASTM D-3654 1" x 1" , 500 grams	>10,000 Minutes				>10,000 Minutes				>10,000 Minutes			

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Push out (2mmx50mm 2strips) 3M Test Method PMMA	130 N	130 N	133 N
180 Degree Peel Adhesion at 70C	oz/in N/cm kg/25.4 mm Glass 70 7.7 2.0 PC 75 8.2 2.1	oz/in N/cm kg/25.4 mm Glass 75 8.2 2.1 PC 75 8.2 2.1	oz/in N/cm kg/25.4 mm Glass 85 9.3 2.4 PC 85 9.3 2.4
Anti-Lifting after dwelling @ 70C for 24 hours Dwell @ RT for 24 hours before starting the test	0 mm	0 mm	0 mm
Temperature Resistance:	Long Term (days, weeks):	200F (93C)	
	Short Term (minutes, hours)	300F (149C)	
¹ Methods listed as ASTM are tested in accordance with the ASTM method noted			

Storage and Shelf Life

The shelf life of 3M™ Adhesive transfer tapes 93420, 93425, 93430 are 24 months from the date of manufacture when stored in the original packaging materials and stored at 21°C (70°F) and 50% relative humidity.

Safety Data Sheet: Consult Safety Data Sheet before use.

Regulatory: For regulatory information about this product, contact your 3M representative.

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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