

Technical Data Sheet

3M™ Conformable Sound Management Film 9343

Product Description

3M™ Conformable Sound Management Film 9343 is designed for the reduction of noise, vibration, squeaks, and rattles in automotive interior applications. The currently available materials for these applications such as flocked cloths and felts are not as elastic, thereby limiting their use to flat surfaces only.

Product Features



- Bonded to an automotive interior component prevents noise and wear by isolating adjacent parts.
- Easily conforms to irregular and curved surfaces meeting a need for sound management that current materials cannot offer.
- Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure develops better adhesive contact and thus improves bond strength.
- To obtain optimum adhesion, the bonding surfaces must be clean, dry and free of oil and dust. Typical cleaning solvents are isopropyl alcohol and water (rubbing alcohol) or heptane.*
- Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

*Note: Carefully read and follow the manufacturer’s precautions and directions for use when working with solvents.



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	Additional Information
Backing	Non-woven	
Adhesive Type	Acrylic	
Liner Thickness	0.05 mm	
Color	Black	
Total Tape Thickness (mil)	17 mil	View 
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.43 mm	View 

Test Method: ASTM D3652

Liner Thickness	2 mil	
Flammability Test	Pass	View 
Test Method: FMVSS 302		
Fog Test	91 %	View 
Test Condition: 90°C		
Tabor Abrasion	Dry (2000 cycles) - No wear through Wet (1000 cycles) - No wear through Heat Aged (14 days @ 82°C [180°F] for 2000 cycles) - No wear through	

Typical Performance Characteristics

Property	Values	Additional Information
Tensile Strength	8.8 N/cm	View 
Test Method: ASTM D3759		
180° Peel Adhesion	3 N/cm	View 
Test Method: ASTM D3330 Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	27 oz/in	View 
Test Method: ASTM D3330 Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	11.97 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: ABS Backing: 2 mil Aluminum Foil Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	109 oz/in	View 
Test Method: ASTM D3330		

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

7.67 N/cm

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

70 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

6.12 N/cm

View 

Test Method: ASTM D3330

Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

56 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion










6.16 N/cm

View 


Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH


Substrate: Paint
Backing: Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	56 oz/in	View 
<p>Dwell/Cure Time: 20.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Paint Backing: Aluminum Foil</p> <p>Notes: 12 in/min (300 mm/min)</p>		
90° Peel Adhesion	9.57 N/cm	View 
<p>Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Paint Backing: Aluminum Foil</p> <p>Notes: 12 in/min (300 mm/min)</p>		
90° Peel Adhesion	86 oz/in	View 
<p>Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Paint Backing: Aluminum Foil</p> <p>Notes: 12 in/min (300 mm/min)</p>		
Tensile Strength	80 oz/in	View 
<p>Test Method: ASTM D3759</p>		
Elongation at Break (%)	400 %	View 
<p>Test Method: ASTM D3759</p>		
Long Term Temp C	121 °C	View 
<p>Test Condition: Long Term (day, weeks)</p>		
Minimum Long Term Temperature Resistance	-34 °C	View 
<p>Test Condition: Long Term (day, weeks)</p>		
Long Term Temp F	250 °F	View 
<p>Test Condition: Long Term (day, weeks)</p>		
Minimum Long Term Temperature Resistance	-30 °F	View 

Test Condition: Long Term (day, weeks)

90° Peel Adhesion	9.19 N/cm	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 20.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: ABS Backing: 2 mil Aluminum Foil</p> <p>Notes: 12 in/min (300 mm/min)</p>		

90° Peel Adhesion	83 oz/in	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 20.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: ABS Backing: 2 mil Aluminum Foil</p> <p>Notes: 12 in/min (300 mm/min)</p>		

Available Sizes

Property	Values	Additional Information
Standard Roll Length	33 m	
Standard Roll Length	36 yd	

Storage and Shelf Life

Store under normal conditions of 72°F (22°C) and 50% R.H. in the original carton.
To obtain best performance, use this product within 12 months from date of manufacture.

Bottom Matter

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References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40070589/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=9343

ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

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