

Product Information:

Product Color	Tape Structure (Backing/Adhesive)	Backing Thickness mils (mm)	Total Thickness mils (mm)	Adhesion to Steel oz./in. (N/100 mm)	Tensile Strength lbs./in. (N/100 mm)	Elongation at Break %	Temperature Range °F (°C)	Comments
ASTM Test Method:		D-3652	D-3652	D-3330	D-3759	D-3759		
Polyethylene Tapes								
480/Transparent	Polyethylene/Acrylic	3.8 (0.10)	5.1 (0.13)	22 (24)	10 (180)	277	20 to 170°F (-7 to 77°C)	Acrylic adhesive.
481/Black	Polyethylene/Rubber	7.7 (0.20)	9.8 (0.25)	32 (35)	15 (260)	510	20 to 170°F (-7 to 77°C)	Preservation sealing tape. ²
4811/White	Polyethylene/Rubber	7.5 (0.18)	9.5 (0.24)	30 (36)	15 (260)	490	Up to 170°F (77°C)	Preservation sealing tape.
483/Various	Polyethylene/Rubber	3.9 (0.10)	5.3 (0.13)	12 (13)	11 (190)	240	Up to 170°F (77°C)	Black, Blue, Green, Red, Transparent, White, Yellow

¹HH-T-0025, Amend 2 ² MIL-T-22085 Amend 3, Type IV

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

3M™ Sound Damping Foils

Reduce noise and vibration in many applications

With pressure sensitive viscoelastic acrylic polymer on dead soft aluminum foil, 3M™ Sound Damping Foils quiet noise and reduce vibration in many areas for Aerospace, Automotive, Appliances, Construction, and MRO (Maintenance and Repair).

- Reduce structure-borne noise in metal and composite panels and support structures
- Optimized acrylic converts vibrational energy to negligible heat that readily dissipates
- Reduce vibrational fatigue to decrease wear and tear on parts and lower the risk of part loosening and displacement
- Effective damping with as little as 10% surface coverage
- Pressure sensitive for easy self-fixturing application
- Long aging performance
- Good performance over a wide temperature range
- Lined construction provides ability to die-cut product



Applied with a 3M™ PA-1 Wiper to the inside of a car door, 3M™ Damping Foil 2552 effectively damps noise and vibration with as little as 10% surface coverage. Optimized acrylic on a dead soft aluminum constraining layer converts vibrational energy to negligible heat that readily dissipates.



3M™ Damping Foil 435 between the ribs and stringers of an aircraft fuselage helps reduce vibrational fatigue and noise inside the passenger cabin.



3M™ Damping Foil 2552 on the inside of a washing machine reduces structure-borne noise and reduces vibrational fatigue to decrease the risk of part loosening and displacement.

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Damping Foils								
2552/Silver	Aluminum/VEP ¹	10.0 (0.25)	15 (0.38)	65 (72)	80 (1400)	15	-25 to 175°F (-32 to 80°C) ²	General purpose vibration damping ³

¹Viscoelastic polymer ² Optimum damping temperature ³ The specimen passed the requirements of FAR 25.853 (a)(1)(ii) per AMDT.25-83 tested in composite on aluminum backer.
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