

# 3M™ Polyurethane Protective Tape 8657DL

## Technical Data Sheet

### Product Description

3M™ Polyurethane Protective Tape 8657DL (dual liner) is a flame retardant tape made from an exceptionally tough polyurethane elastomer that resists puncture, tearing, and abrasion. This product is uniquely formulated to pass the burn resistance requirements of FAR 25.853 when tested alone or as a covering applied to floor panels such as those noted below. Applied over aircraft floor panels, this product establishes an excellent barrier to fluids and helps prevent liquids from causing corrosion of the floor system. 8657DL incorporates a specially formulated pressure sensitive adhesive for fast and easy application. This product is supplied with a 3 mil polyethylene liner to protect the adhesive, and a 2 mil top polyester liner used as an aide for application. One liner is removed prior to installation, the second removed after, to allow for an easier installation.

### Typical Physical Properties and Performance Characteristics

**Note:** 1) The following technical information and data should be considered representative or typical only and should not be used for specification purposes. 2) Test results obtained using fiberglass reinforced epoxy honeycomb core sandwich panel qualified to Boeing Material Standard 4-17 Type VI and graphite reinforced epoxy honeycomb core sandwich panel qualified to Boeing Material Standard 4-20 Type II. 3) ASTM = American Society for Testing and Material.

Property	Test Method	Units	Typical Value <sup>1</sup>
Tensile	ASTM D882 Method A	lb./in. (N/100 mm)	88 (1540)
Elongation % @ Break	ASTM D882 Method A	%	600
Hardness	ASTM D2240	Shore A	90
Peel Adhesion	ASTM D3330 180° Peel 24 hr dwell on: <ul style="list-style-type: none"> <li>• Bare Aluminum 2024 T3</li> <li>• BMS 4-17 Type VI Floor Panel</li> <li>• BMS 4-20 Type II Floor Panel</li> </ul>	oz./in. (N/100 mm)	35 (38) 19 (21) 23 (25)
Flame Resistance	FAR 25.853 App. F Part I (a) (1) (ii) as: <ul style="list-style-type: none"> <li>• Free Standing Tape</li> <li>• Applied to aircraft floor boards<sup>2</sup></li> </ul>	Extinguish Time (seconds)	1 0
Max. Service Temperature		°F (°C)	180°F (82°C)

### Dimensions

Approximate Applied Thickness*	0.018 inch (0.46 mm)
Standard Roll Length	36 yd. (32.9 m)
Available Widths	Minimum 2 inches Maximum 48 inches (5 cm to 122 cm)
Approximate Weight*	1.16 lb/yd <sup>2</sup> (647 g/m <sup>2</sup> )

\*Excludes the paper liner that is removed from the tape prior to application.

## Shipping and Storage

No special/hazardous labeling or packaging required or regulations for air, ground or water shipment for this product.

Keep film in a clean area, away from excessive moisture and out of direct sunlight. Store rolls in the shipping carton. Return partially used rolls to the shipping carton.

**Shelf life:** Two (2) years from date of manufacture

## Additional Information

In the U.S. call toll free 1-800-235-2376, or fax 1-800-435-3082 or 651-737-2171. For U.S. Military, call 1-866-556-5714. If you are outside of the U.S., please contact your nearest 3M representative.

*\*These products were manufacture under a 3M Quality Management System registered to the AS9100 standard*

**Technical Information:** The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information. **Product Selection and Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property. **Warranty, Limited Remedy, and Disclaimer:** Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. **Limitation of Liability:** Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.



Automotive & Aerospace Solutions Division  
3M Center  
St. Paul, MN 55144-1000  
Phone 1-800-328-1684  
Web [www.3M.com/aerospace](http://www.3M.com/aerospace)

8657DL  
Issue date: 6/2018

3M is a trademark of 3M Company  
© 3M 2018. All rights reserved.