



# 200MP Micro-channel Laminating Adhesives

## 467MC • 468MC • 467MCF • 468MCF

Technical Data

March 2014

### Product Description

**Note:** The data presented in this data sheet are best estimates for the current product construction being evaluated.

3M™ 467MC, 468MC, 467MCF and 468MCF feature a 200MP laminating adhesive on a 3M proprietary liner, which creates micro-channels in the adhesive surface (back side surface of adhesive). The crosshatched pattern creates a continuous and permanent network of micro-channels in the back side of the adhesive, allowing air to escape from between the adhesive surface and the substrate. This helps to facilitate bubble free laminations of graphics to substrates.

3M™ Adhesive 200MP is a popular choice for graphic attachment and nameplate applications because it has excellent quality, consistency and durability. In addition, as a result of 3M's innovative, proprietary process, 3M adhesive 200MP also offers the following excellent performance characteristics.

- Clarity (virtually free of vapor inclusions that are commonly found in adhesives produced by the traditional solvent coating technique).
- Excellent high temperature performance as well as excellent shear strength (that minimizes edge lifting and slippage of parts).
- Excellent resistance to harsh environments; this adhesive can withstand splashes of organic solvents, weak acids and bases and salt water, cleaning solutions, germicides, disinfectants, oils, etc. In addition, it performs well after exposure to humidity and hot/cold cycles.
- Provides some initial repositionability when bonding to plastic parts (not metal) which allows graphic parts to be lifted and repositioned if initial alignment is incorrect.
- Adhesive family is provided with a polyester and PCK liner configurations to help ensure excellent process flexibility.

### Product Constructions

Product	Adhesive Thickness	Liner
467MC	2 mil 200MP (50.8 microns)	58# PCK
468MC	5 mil 200MP (127 microns)	58# PCK
467MCF	2 mil 200MP (50.8 microns)	4 mil (102 microns) PET
468MCF	5 mil 200MP (127 microns)	4 mil (102 microns) PET

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## 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.

### Adhesion to Stainless

Per ASTM D-3330 except 2 mil aluminum foil was used as a backing and the test used a 90 degree peel angle.

Product	Initial adhesion 15 min room temp dwell		Adhesion after 72 hrs at room temp	
	Oz/in	N/100mm	Oz/in	N/100mm
467MC	60	66	103	113
468MC	85	93	149	163
467MCF	55	60	80	88
468MCF	69	76	147	161

### Static Shear

ASTM D3654 - 1" x 1" sample area - aluminum foil to stainless steel.

Temperature °F (°C)	Static Load (gms.)	Time to Shear Failure (minutes)
70 (21)	2000	10,000+
200 (93)	1000	10,000+
350 (177)	500	10,000+

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## Technical Information

The technical information 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. It has been prepared from testing that was performed using standard test methods, and tested equipment that is calibrated in compliance to ISO9001 and operated by trained professionals in controlled environments. The data should be considered representative or typical only and should not be used for specification purposes. 3M reserves the right to make changes to the design, construction and technical data of products without prior warning.

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ISO 9001

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



For more information contact your local 3M representative or call 800-223-7427

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