



200MP Micro-channel Laminating Adhesives.

467MC, 468MC, 467MCF and 468MCF

Preliminary Datasheet

October 2011

Product Description

Note: The data presented in this preliminary 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

<u>Product</u>	<u>Adhesive Thickness</u>	<u>Liner</u>
467MC	2 mil 200MP (50.8 microns)	58# PCK
468MC	5 mil 200MP (127 microns)	58# PCK
467MCF	5 mil 200MP (127 microns)	4 mil (102 microns) PET
468MCF	2 mil 200MP (50.8 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		Adhesion after	
	15 min room temp dwell		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+
350F (177)	500	10,000+



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**For
Additional
Information**

To request additional product information or to arrange for sales assistance, call 3M Technical Service at 651 736-0602. Address correspondence to 3M Industrial Adhesives and Tapes Division, 3M Center, Building 230 -2G-14, St. Paul, MN 55144-1000. Our fax number is 651-736-3514

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