WSS-M99P48-B3

Pressure Sensitive Adhesive Tape
(Interior, Exterior and Underhood Applications)

Automotive Interior Spec Testing

Technical Bulletin **April 2021**

3M tested the following adhesive tapes to the Automotive OEM Spec: WSS-M99P48-B3. The results of the testing are provided in the following information. Adhesives not listed on this document have not been tested to this spec.

Automotive specification testing was performed on lab substrates and not on actual automotive production parts. Additional testing by the converter, tier or supplier is needed to show that parts and adhesives meet such specification. Please carefully read the automotive specification for further information.

Revision	Date	Comments
Original release	April 2021	Initial testing and bulletin completed

3M™ Adhesive Transfer Tape 9472/LE

3M™ Adhesive Transfer Tape 6035PC/PL

3M™ Double Coated Tape 9832 /HL

3M™ Adhesive Transfer Tape 950

3M™ Double Coated Tape 93015LE

3M™ Adhesive Transfer Tape 9775WL

3M™ Low VOC Double Coated Tissue Tape DCX1018

3M™ Adhesive Transfer Tape 9627

Test	Test Condition / Environment	
180° Peel Adhesion 300mm / 12 inch per min	Initial	20 minutes @ room temp 23°C / 73°F
	Heat Aged	168 hours @ 100°C / 212°F
	Environmental Cycle	10 cycles 4 hours @ 100°C / 212°F 4 hours @ 38°C / 100°F 16 hours @ -30°

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

				9472LE	93015LE	6035PC/PL	9775WL	9832/HL	DCX1018	950/9472	9627
PP	Initial	2 mil PET		M	M	M	D	D	M	M	M
		crushed EPDM		M	D	M	M	D	D	D	M
		Ether		M	D	M	M	D	D	D	M
		Ester		M	M	M	M	M	M	M	M
		Microcellular		M	M	M	D	M	M	M	M
	Heat	2 mil PET		M	M	M	M	D	M	M	M
		crushed EPDM		M	M	D	D	D	M	M	M
		Ether		M	D	D	M	M	M	M	M
		Ester		M	M	M	M	M	M	M	M
		Microcellular		M	M	D	D	D	M	M	M
	Cycle	2 mil PET		M	D	D	D	D	M	D	M
		crushed EPDM		M	M	D	D	M	M	M	M
		Ether		M	D	D	M	M	M	D	M
		Ester		M	D	M	M	M	M	M	M
		Microcellular		M	M	D	D	D	M	M	M
ABS	Initial	2 mil PET		M	M	M	M	D	M	M	M
		crushed EPDM		M	M	M	M	D	D	D	M
		Ether		D	D	M	M	D	M	D	M
		Ester		M	M	M	M	M	M	M	M
		Microcellular		M	D	M	M	M	M	M	M
	Heat	2 mil PET		M	M	M	M	M	M	M	M
		crushed EPDM		M	M	M	M	M	M	M	M
		Ether		M	D	M	M	M	M	M	M
		Ester		M	M	M	M	M	M	M	M
		Microcellular		M	M	M	M	M	M	M	M
	Cycle	2 mil PET		M	M	M	M	M	M	D	M
		crushed EPDM		M	M	M	M	M	M	M	M
		Ether		M	D	M	M	M	M	M	M
		Ester		M	M	M	M	M	M	M	M
		Microcellular		M	M	M	M	M	M	M	M
FOG / SAE J1756				99	97	98	99	99	39	99	99

M= meets requirements

D= does not meet requirements

Note: Data reported in this technical bulletin, for all test methods, is the average of three replicates using one typical lot of adhesive.

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

9472LE

1

Initial – 20 minutes @ 23°C / 73°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement 0.48 N/mm / 43.85 oz/in
9472LE	PP	2 mil PET	.73	68.05	Clean Peel	Meets requirement
	ABS		.70	64.54	Clean Peel	Meets requirement
	Crushed EPDM	Rigid PP Panel			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements
	Crushed EPDM	Rigid ABS Panel			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

Heat Aged – 168 hours @ 100°C / 212°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement Max 25% loss from original
9472LE	PP	PET	.67	62.59	Clean peel	Meets requirement
	ABS		.99	92.07	Cohesive	Meets requirement
	Crushed EPDM	Rigid PP Panel			Foam Broke	Meets requirement
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements
	Crushed EPDM	Rigid ABS Panel			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

Environmental Cycle – 10 cycles						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement Max 25% loss from original
9472LE	PP	2 mil PET	.63	58.24	Clean Peel	Meets requirement
	ABS		.88	81.99	Cohesive	Meets requirement
	Crushed EPDM	Rigid PP Panel			Foam Broke	Meets requirement
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements
	Crushed EPDM	Rigid ABS Panel			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

93015LE

Initial – 20 minutes @ 23°C / 73°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement 0.48 N/mm / 43.85 oz/in
93015LE	PP	2 mil PET	.93	86.72	2 bond	Meets requirement
	ABS		.80	73.96	Clean Peel	Meets requirement
	Crushed EPDM	Rigid PP Panel	.33	30.41	Slt foam tear	Does not meet requirement
	Polyether		.45	41.46	C.P. from adhesive	Does not meet requirement
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements
	Crushed EPDM	Rigid ABS Panel			Foam Broke	Meets requirements
	Polyether		.42	39.04	C.P. from adhesive	Does not meet requirement
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

Heat Aged – 168 hours @ 100°C / 212°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
93015LE	PP	2 mil PET	1.14	106.01	2 bond	Meets requirements
	ABS		.87	80.52	Clean Peel	Meets requirement
	Crushed EPDM	Rigid PP Panel			Foam Broke	Meets requirements
	Polyether		.50	46.40	Slt foam tear	Does not meet requirement
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements
	Crushed EPDM	Rigid ABS Panel			Foam Broke	Meets requirements
	Polyether		.50	46.42	C.P. from adhesive	Does not meet requirement
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

Environmental Cycle – 10 cycles						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
93015LE	PP	2 mil PET	.60	55.71	Clean Peel	Does not meet requirement
	ABS		.78	72.28	Clean Peel	Meets requirement
	Crushed EPDM	Rigid PP Panel			Foam Broke	Meets requirements
	Polyether		.39	36.01	C.P. from adhesive	Does not meet requirement
	Polyester		.48	44.64	C.P. from adhesive	Does not meet requirement
	Microcellular				Foam Broke	Meets requirements
	Crushed EPDM	Rigid ABS Panel			Foam Broke	Meets requirements
	Polyether		.39	36.01	C.P. from adhesive	Does not meet requirement
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

6035PC/PL

Initial – 20 minutes @ 23°C / 73°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement 0.48 N/mm / 43.85 oz/in
6035PC/PL	PP	2 mil PET	.58	54.04	Clean Peel	Meets requirement
	ABS		.70	64.57	Clean Peel	Meets requirement
	Crushed EPDM	Rigid PP panel			Foam Broke	Meets requirements
	Polyether		.81	74.81	Slight Foam Tear	Meets requirement
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements
	Crushed EPDM	Rigid ABS panel			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

Heat Aged – 168 hours @ 100°C / 212°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
6035PC/PL	PP	2 mil PET	.84	78.14	Clean Peel	Meets requirements
	ABS		.83	76.84	Clean Peel	Meets requirements
	Crushed EPDM	Rigid PP panel	.30	27.96	C.P. from PP	Does not meet requirement
	Polyether		.33	30.19	C.P. from PP	Does not meet requirement
	Polyester		.84	78.12	C.P. from PP	Meets requirement
	Microcellular		.22	20.59	C.P. from PP	Does not meet requirement
	Crushed EPDM	Rigid ABS panel			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

Environmental Cycle – 10 cycles						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
6035PC/PL	PP	2 mil PET	.39	36.27	Clean Peel	Does not meet requirement
	ABS		.98	91.35	Clean Peel	Meets requirements
	Crushed EPDM	Rigid PP Plaque	.18	17.03	C.P. from PP	Does not meet requirement
	Polyether		.39	35.95	C.P. from PP	Does not meet requirement
	Polyester				Foam Broke	Meets requirements
	Microcellular		.12	11.43	C.P. from PP	Does not meet requirement
	Crushed EPDM	Rigid ABS Plaque			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

9775WL

Initial – 20 minutes @ 23°C / 73°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement 0.48 N/mm /43.85 oz/in
9775WL	PP	2 mil PET	.44	41.24	Clean Peel	Does not meet requirement
	ABS		.59	54.67	Clean Peel	Meets requirement
	Crushed EPDM	Rigid PP Plaque			Foam Broke	Meets requirements
	Polyether		.83	76.75	C.P. from PP	Meets requirement
	Polyester				Foam Broke	Meets requirements
	Microcellular		.14	13.36	C.P. from PP	Does not meet requirement
	Crushed EPDM	Rigid ABS Plaque			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

Heat Aged – 168 hours @ 100°C / 212°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
9775WL	PP	2 mil PET	.39	36.09	Clean Peel	Meets requirements
	ABS		.88	82.05	Cohesive	Meets requirements
	Crushed EPDM	Rigid PP Plaque	.29	27.11	C.P. from PP	Does not meet requirement
	Polyether		.49	45.44	C.P. from PP	Meets requirements
	Polyester		.99	91.58	C.P. from PP	Meets requirements
	Microcellular		.26	24.16	C.P. from PP	Does not meet requirement
	Crushed EPDM	Rigid ABS Plaque			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

Environmental Cycle – 10 cycles						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
9775WL	PP	2 mil PET	.25	23.49	Clean Peel	Does not meet requirement
	ABS		.61	56.70	Cohesive	Meets requirement
	Crushed EPDM	Rigid PP Plaque	.07	6.56	C.P. from PP	Does not meet requirement
	Polyether		.35	32.04	C.P. from PP	Does not meet requirement
	Polyester				Foam Broke	Does not meet requirement
	Microcellular		.14	12.90	C.P. from PP	Does not meet requirement
	Crushed EPDM	Rigid ABS Plaque			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

9832 / 9832HL

Initial – 20 minutes @ 23°C / 73°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement 0.48 N/mm /43.85 oz/in
9832 9832HL	PP	2 mil PET	.24	22.37	Clean Peel	Does not meet requirement
	ABS		.35	32.76	Clean Peel	Does not meet requirement
	Crushed EPDM	Rigid PP Plaque	.17	15.81	Slight foam tear	Does not meet requirement
	Polyether		.45	41.33	C.P. from adhesive	Does not meet requirement
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements
	Crushed EPDM	Rigid ABS Plaque	.18	16.90	Slight foam tear	Does not meet requirement
	Polyether		.40	36.74	Foam specs	Does not meet requirement
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

Heat Aged – 168 hours @ 100°C / 212°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
9832 9832HL	PP	2 mil PET	.12	11.05	Clean Peel	Does not meet requirement
	ABS		.80	74.51	Clean Peel	Meets requirements
	Crushed EPDM	Rigid PP Plaque	.15	13.83	C.P. from PP	Does not meet requirement
	Polyether		.50	46.66	Slight foam tear	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular		0	0	C.P. from PP	Does not meet requirement
	Crushed EPDM	Rigid ABS Plaque			Foam Broke	Meets requirements
	Polyether		.36	33.53	Cohesive	Meets requirements
	Polyester		.77	71.51	C.P. from adhesive	Meets requirements
	Microcellular				Foam Broke	Meets requirements

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

Environmental Cycle – 10 cycles						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
9832 9832HL	PP	2 mil PET	.16	14.65	Clean Peel	Does not meet requirement
	ABS		.51	47.74	Cohesive	Meets requirements
	Crushed EPDM	Rigid PP Plaque	.25	23.48	C.P. from PP	Meets requirements
	Polyether		.80	74.53	Slt cohesive	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular		.03	2.64	C.P. from PP	Does not meet requirements
	Crushed EPDM	Rigid ABS Plaque			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

DCX1018

Initial – 20 minutes @ 23°C / 73°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement 0.48 N/mm /43.85 oz/in
DCX1018	PP	2 mil PET	.65	60.77	Clean Peel	Meets requirement
	ABS		.75	69.99	Clean Peel	Meets requirement
	Crushed EPDM	Rigid PP Plaque	.24	21.89	Slight foam tear	Does not meet requirement
	Polyether		.25	23.64	C.P. from adhesive	Does not meet requirement
	Polyester				Foam Broke	Meets requirement
	Microcellular				Foam Broke	Meets requirement
	Crushed EPDM	Rigid ABS Plaque	.28	25.78	Slight foam tear	Does not meet requirement
	Polyether		.65	59.94	Foam specs	Meets requirements
	Polyester				Foam Broke	Meets requirement
	Microcellular				Foam Broke	Meets requirement

Heat Aged – 168 hours @ 100°C / 212°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
DCX1018	PP	2 mil PET	.92	85.45	Clean Peel	Meets requirement
	ABS		.96	88.85	Cohesive	Meets requirement
	Crushed EPDM	Rigid PP Plaque			Foam Broke	Meets requirement
	Polyether		.68	63.15	Foam Specs	Meets requirement
	Polyester				Foam Broke	Meets requirement
	Microcellular				Foam Broke	Meets requirement
	Crushed EPDM	Rigid ABS Plaque			Foam Broke	Meets requirement
	Polyether				Foam Broke	Meets requirement
	Polyester				Foam Broke	Meets requirement
	Microcellular				Foam Broke	Meets requirement

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

Environmental Cycle – 10 cycles						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
DCX1018	PP	2 mil PET	.69	63.62	Clean Peel	Meets requirement
	ABS		.90	83.07	Cohesive	Meets requirement
	Crushed EPDM	Rigid PP Plaque			Foam Broke	Meets requirement
	Polyether				Foam Tear	Meets requirement
	Polyester				Foam Broke	Meets requirement
	Microcellular				Foam Broke	Meets requirement
	Crushed EPDM	Rigid ABS Plaque			Foam Broke	Meets requirement
	Polyether				Foam Tear	Meets requirement
	Polyester				Foam Broke	Meets requirement
	Microcellular				Foam Broke	Meets requirement

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

Initial – 20 minutes @ 23°C / 73°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement 0.48 N/mm /43.85 oz/in
950/9472	PP	2 mil PET	1.00	92.89	Cohesive	Meets requirements
	ABS		.85	78.86	Cohesive	Meets requirements
	Crushed EPDM	Rigid PP Plaque	.26	24.12	Slight foam Tear	Does not meet requirement
	Polyether		.32	29.29	C.P. from foam	Does not meet requirement
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements
	Crushed EPDM	Rigid ABS Plaque	.26	23.77	Slight foam tear	Does not meet requirement
	Polyether		.41	37.84	C.P. from foam	Does not meet requirement
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

Heat Aged – 168 hours @ 100°C / 212°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
950/9472	PP	2 mil PET	1.14	105.69	Cohesive	Meets requirements
	ABS		.89	82.33	C.P. from ABS	Meets requirements
	Crushed EPDM	Rigid PP Plaque			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements
	Crushed EPDM	Rigid ABS Plaque			Foam Broke	Meets requirements
	Polyether				Foam Tear	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

Environmental Cycle – 10 cycles						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
950/9472	PP	2 mil PET	.69	63.82	cohesive	Does not meet requirement
	ABS		.56	52.32	cohesive	Does not meet requirement
	Crushed EPDM	Rigid PP Plaque			Foam Broke	Meets requirement
	Polyether		.42	38.97	C.P. from PP	Does not meet requirement
	Polyester				Foam Broke	Meets requirement
	Microcellular				Foam Broke	Meets requirement
	Crushed EPDM	Rigid ABS Plaque			Foam Broke	Meets requirement
	Polyether				Foam Broke	Meets requirement
	Polyester				Foam Broke	Meets requirement
	Microcellular				Foam Broke	Meets requirement

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

Initial – 20 minutes @ 23°C / 73°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement 0.48 N/mm /43.85 oz/in
9627	PP	2 mil PET	.83	76.94	Cohesive	Meets requirements
	ABS		.79	73.53	Cohesive	Meets requirements
	Crushed EPDM	Rigid PP Plaque			Foam Broke	Meets requirements
	Polyether		.54	49.76	Foam Specs	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements
	Crushed EPDM	Rigid ABS Plaque			Foam Broke	Meets requirements
	Polyether				Foam Tear	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

Heat Aged – 168 hours @ 100°C / 212°F						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
9627	PP	2 mil PET	.84	78.34	C.P. from PP	Meets requirements
	ABS		.93	85.86	C.P. from ABS	Meets requirements
	Crushed EPDM	Rigid PP Plaque			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements
	Crushed EPDM	Rigid ABS Plaque			Foam Broke	Meets requirements
	Polyether				Foam Tear	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

WSS-M99P48-B3:
Pressure Sensitive Adhesive Tape

Environmental Cycle – 10 cycles						
	Substrate	Backing	AVG Peel N/mm	AVG Peel ozf/in	Observation	Requirement max 25% loss from original
9627	PP	2 mil PET	.80	74.52	Cohesive	Meets requirements
	ABS		.66	61.19	Cohesive	Meets requirements
	Crushed EPDM	Rigid PP Plaque			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements
	Crushed EPDM	Rigid ABS Plaque			Foam Broke	Meets requirements
	Polyether				Foam Broke	Meets requirements
	Polyester				Foam Broke	Meets requirements
	Microcellular				Foam Broke	Meets requirements

WSS-M99P48-A3:
Foam Performance, Pressure Sensitive Adhesive Tape

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.

ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001: 2000 standards.

3M
Industrial Adhesives and Tapes Division
Converter Markets
3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-7427 • 651-778-4244 (Fax)
www.3M.com/converter