



TEST REPORT		PRODUCT:		652 O	
FORD WSS-M99P48-A3 JUL 2016 ≻INTERIOR, AT OR ABOVE BELTLINE		TEST SUBSTRATE:		20% Talc-Filled Polypropylene [TFPP], ABS & TPO	
TITLE: FOAM PERFORMANCE, PRESSUR Adhesive Tape WSS-M99P48-A3 Exterior, climate control and D)	E		REPORT DATE:	06/26/23	
		<u>REQ</u>		<u>RESULTS</u>	
			<u>TFPP</u>	<u>ABS</u>	<u>TP0</u> ♦
LITY REQUIREMENTS AND CTERIZATION OF PRODUCTION MATERIALS					
Original	0.48 N/mm		0.59 N/mm	0.61 N/mm	0.48 N/mm
ASTM D1000, SECTION 46-53 EXCEPT REPLACE THE STEEL PANELS WITH THE INTENDED SUBSTRATE, 180 DEGREE PEEL		inimum			
After Heat Aging Change	-2	5% Max	0.61 N/mm	1.10 N/mm	0.53 N/mm
At or Above Beltline [168 hours, 100 +/- 2 °C]					
After Environmental Cycling Change	-2	5% Max	x 0.97 N/mm	0.92 N/mm	0.62 N/mm
10 cycles, each cycle shall consist of the following:					
 4 h at 100 +/- 2 °C 4 h at 38 +/- 2 °C and 95-100% R.H. 					
	M99P48-A3 JUL 2016 R, AT OR ABOVE BELTLINE TITLE: FOAM PERFORMANCE, PRESSUR ADHESIVE TAPE WSS-M99P48-A3 EXTERIOR, CLIMATE CONTROL AND D) LITY REQUIREMENTS AND CTERIZATION OF PRODUCTION MATERIALS Original ASTM D1000, SECTION 46-53 EXCEPT REPLACE THE STEEL PANELS WITH THE INTENDED SUBSTRATE, 180 DEGREE PEEL After Heat Aging Change At or Above Beltline [168 hours, 100 +/- 2 °C] After Environmental Cycling Change 10 cycles, each cycle shall consist of the following: • 4 h at 100 +/- 2 °C • 4 h at 38 +/- 2 °C and 95-100%	M99P48-A3 JUL 2016 R, AT OR ABOVE BELTLINE TITLE: FOAM PERFORMANCE, PRESSURE ADHESIVE TAPE WSS-M99P48-A3 EXTERIOR, CLIMATE CONTROL AND D) LITY REQUIREMENTS AND CTERIZATION OF PRODUCTION MATERIALS Original 0.4 ASTM D1000, SECTION 46-53 EXCEPT REPLACE THE STEEL PANELS WITH THE INTENDED SUBSTRATE, 180 DEGREE PEEL After Heat Aging Change -2 At or Above Beltline [168 hours, 100 +/-2 °C] After Environmental Cycling Change -2 10 cycles, each cycle shall consist of the following: • 4 h at 100 +/-2 °C • 4 h at 38 +/-2 °C and 95-100%	M99P48-A3 JUL 2016 TE R, AT OR ABOVE BELTLINE TE TITLE: FOAM PERFORMANCE, PRESSURE ADHESIVE TAPE WSS-M99P48-A3 EXTERIOR, CLIMATE CONTROL AND N D) REQ LITY REQUIREMENTS AND REQ Criginal 0.48 N/mm ASTM D1000, SECTION 46-53 EXCEPT Minimum REPLACE THE STEEL PANELS WITH THE NTENDED SUBSTRATE, 180 DEGREE PEEL After Heat Aging Change -25% Max At or Above Beltline -25% Max 10 cycles, each cycle shall consist of the following: -25% Max • 4 h at 100 +/- 2 °C • 4 h at 38 +/- 2 °C and 95-100%	M99P48-A3 JUL 2016 R, AT OR ABOVE BELTLINE TEST SUBSTRATE: TITLE: FOAM PERFORMANCE, PRESSURE ADHESIVE TAPE WSS-M99P48-A3 EXTERIOR, CLIMATE CONTROL AND D) REPORT DATE: TITLE: FOAM PERFORMANCE, PRESSURE ADHESIVE TAPE WSS-M99P48-A3 EXTERIOR, CLIMATE CONTROL AND D) REPORT DATE: OUTON TO TROL AND D) REQ ITPP LITY REQUIREMENTS AND STERIZATION OF PRODUCTION MATERIALS Original 0.48 N/mm Minimum 0.59 N/mm ASTM D1000, SECTION 46-53 EXCEPT REPLACE THE STEEL PANELS WITH THE INTENDED SUBSTRATE, 180 DEGREE PEEL 0.48 N/mm Minimum 0.59 N/mm After Heat Aging Change [168 hours, 100 +/-2 °C] -25% Max 0.61 N/mm After Environmental Cycling Change following: -25% Max 0.97 N/mm 10 cycles, each cycle shall consist of the following: -25% Max 0.97 N/mm	M99948-A3 JUL 2016 TEST SUBSTRATE: 20% Taic-Filled Pc TITLE: FOAM PERFORMANCE, PRESSURE REPORT DATE: 06/26/23 DITLE: FOAM PERFORMANCE, CONTROL AND 0 0 D) REQ RESULTS DITLE: FOAM PERFORMANCE, CONTROL AND 0 06/26/23 D) REQ RESULTS DITLE: FOAM PERFORMANCE, CONTROL AND 0 06/26/23 D) REQ RESULTS DITLE: FOAM PERFORMANCE, CONTROL AND 0 0 D) REQ RESULTS 06/26/23 DITLE: FOAM PERFORMANCE, CONTROL AND RESULTS RESULTS DITLE: FOAM PERFORMANCE, CONTROL AND 0.48 N/mm 0.59 N/mm 0.61 N/mm ASTM D1000, SECTION 46-53 EXCEPT REPLACE THE STEEL PANELS WITH THE NIMINUM 0.59 N/mm 1.10 N/mm After Heat Aging Change -25% Max 0.61 N/mm 1.10 N/mm 1.10 N/mm After Heat Aging Change

Solvay Sequel 1402

• Adhesive tested with 1-mil PET film applied to exposed-side of adhesive

A Decrease in peel adhesion after conditioning is greater than 25% Maximum stated. Results in RED do not meet requirement

APPROVED: Original Test Date: 12/07/20 Berry Global Technical Service Department

Conditioning and Testing per FORD WSS-M99P48-A3