



North American Headquarters
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PV TEST REPORT

Material: F2.0 STD
 Specification: WSS-M99P32-E1 Spec Revision: 2017 02 16
 Deviations: None
 Report Date: 3-11-24
 Authorized by: Joe Andolsen
Joseph R. Andolsen
 Process and QA Engineer
 Palziv North America

Specification	Test	Equipment	Test Method	Procedure	Acceptance Criteria / Test results		Test responsibility	Sample Qty	Timing		Results	Comments
									Start	end		
WSS-M99P32-E1 3.3	3.3.2 Density	Scout Pro SP202 scale/ Lloyd LR10K Plus digital materials tester	FLTM BN 106-01 Procedure B	(kg/m ³)= weight Volume	Report only	34, 34, 34 kg/m ³	Palziv	3	2/14/24	2/14/24	Satisfied	
WSS-M99P32-E1 3.4	3.4 Odor	Odor Jars	FLTM BO 131-03	24h@23°C+50ml h20 24h@40°C+50ml h20 2h@65°C	Rating Max 3	Cond #1- 1.0, 1.0, 1.0, 1.0, 1.0 Cond #2- 1.5, 1.0, 2.0, 1.0, 1.0 Cond #3- 2.0, 1.5, 2.5, 1.5, 1.5	Palziv/P3T Lab	5	2/23/24	2/24/24	Satisfied	Report Q-240115-01
WSS-M99P32-E1 3.5	3.5 Fogging	Glass plates, test chamber	SAE J1756	3h at 100°C, 21°C cooling plate 16h post conditioning	Min 70, no oily film droplets or crystals	98, 97, 95	Palziv/P3T Lab	3	2/23/24	2/24/24	Satisfied	Report Q-240115-01
WSS-M99P32-E1 3.6	3.6 Flammability	Sunspot Products Company- Horizontal flammability test cabinet model FTC 1700	SAE J369 ISO 3795 FMVSS302	FMVSS302	100mm/min max	0/SE mm/min 90 mm/min 77 mm/min 84 mm/min 85 mm/min	Palziv	5	6/5/23	6/5/23	Satisfied	Tested at 0.25" thickness, pass ≥ 0.25" thickness

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WSS-M99P32-E1 3.7	3.7.1 Resistance to Mildew	Humidity chamber	WSS-M99P32-E1 3.7.1	38°C&98%RH 7 days	No visible evidence of Mildew growth and / or odor	Pass- No visible evidence of Mildew growth and / or odor	Palziv/P3T Lab	1	2/23/24	2/24/24	Satisfied	Report Q-240115-01
WSS-M99P32-E1 3.7	3.7.2.1 Short Term Environmental Cycle	Environmental Cycle Chamber	FLTM BO 040-01 Procedure A 80°C	5h@ -30°C 30m@23°C+50%RH 5h@80°C 30m@23°C+50%RH 2h@50°C+95%RH 30m@23°C+50%RH 5h@-30°C 30m@23°C+50%RH 5h@80°C	No detrimental effect	Satisfied	P3T Lab	3	12/27/19	12/27/19	Satisfied	Report #: Q-19204-03
WSS-M99P32-E1 3.7	3.7.2.2 Long Term Environmental	Memmert Model UN110 Oven	FLTM BO 040-01 Procedure B 80°C	7d@80°C	No detrimental effect	Satisfied	Palziv	1	1/2/20	1/9/20	Satisfied	
WSS-M99P32-E1 3.8	3.8.2 Tear	Lloyd LR10K Plus digital materials tester	ASTM D3574 Test F	500mm/min Record force at break	Report value	2327, 2375, 2447 N/m	Palziv	3	2/14/24	2/14/24	Satisfied	Tested per note 19 in ASTM D3574-17
WSS-M99P32-E1 3.8	3.8.3 Compression Force Deflection	Lloyd LR10K Plus digital materials tester	ASTM D3574 Test C	Preflex twice 75-80% at 250mm/min speed 6min rest 50% compression at 50mm/min 60 sec reading	Report value	80.6, 79.5, 76.2 kPa	Palziv	3	3/11/24	3/11/24	Satisfied	

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WSS-M99P32-E1 3.8	3.8.4.1 Compression Set Original	Tri-plate adjustable compression clamps and variable thickness shims/spacers, Memmert Model UN110 Oven	ASTM D3574 Test D	22h@70° C 30m recovery	Report value %	Not Applicable	Palziv	3			Satisfied	*Floor Foam materials only. Test method not relevant for XLPE foam.
WSS-M99P32-E1 3.8	3.8.4.2 Compression Set change after short term environmental cycling	Tri-plate adjustable compression clamps and variable thickness shims/spacers, Environmental Cycle Chamber	Condition material followed by ASTM D3574 Test D	5h@ -30°C 30m@23°C+50%RH 5h@80°C 30m@23°C+50%RH 2h@50°C+95%RH 30m@23°C+50%RH 5h@-30°C 30m@23°C+50%RH 5h@80°C 22h@70° C 30m recovery per ASTM D3574 test D	40% Max property change from original	Not Applicable	Palziv	3			Satisfied	*Floor Foam materials only. Test method not relevant for XLPE foam.
WSS-M99P32-E1 3.8	3.8.4.3 Compression Set change after long term environmental	Tri-plate adjustable compression clamps and variable thickness shims/spacers, Memmert Model UN110 Oven	Condition material followed by ASTM D3575 Test D	7d@80°C 22h@70° C 30m recovery per ASTM D3574 test D	10% Max property change from original	Not Applicable	Palziv	3			Satisfied	*Floor Foam materials only. Test method not relevant for XLPE foam.
WSS-M99P32-E1 3.8	3.8.5 Peel Strength (Laminates only)	-	FLTM BN 151-05	Specimen size: 50mmx 200mm Test speed 250mm/min	Samples must meet one of the following requirements: -Achieve Peel strength value of 6 N/50mm min -Adhesive of the covering material must exceed cohesive strength of the substrate							N/A. Material is not a laminate.
WSS-M99P32-E1 3.8	3.8.6 Moisture Absorption	Humidity chamber	WSS-M99P32-E1 3.8.6	24h@38°C+95%RH 1h recovery @ 23°+50%RH	Max 30%	0.2 %	P3T Lab	1	12/27/19	12/27/19	Satisfied	Report #: Q-19204- 03

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