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Laboratory Report No. 47452

22-Jan-21

Mr. Thomas Beach
Lifesaving Systems
220 Elsberry Road
Apollo Beach, FL 33572

Cc: Ms. Darcy Phillips

PO #: 4213

Item: One (1) sample of material

Identification: Part Number: M022
Description: 15 mil Urethane Film

Purpose: Breaking Strength, ASTM D751
Tear Strength, Tongue Tear, ASTM D751
Seam Strength, ASTM D751

Test Unit of Measure	Specimen Results	Average	Pass/Fail
Breaking Strength, lbf **ASTM D751** **Procedure A - Grab Method**			
	As Received		
Warp Breaking Force, lbf	Specimen attained upper limits of test equipment without failure.		
Fill Breaking Force, lbf	Specimen attained upper limits of test equipment without failure.		
Client Requirement: Warp - 210 lbf and Fill - 180 lbf Minimum			

Trapezoidal Tear **ASTM D751** **CRE Tensile Testing Machine** **Option 2 Ultimate Force**								
				As Received				
Warp	lbf	22.8	19.3	19.2	22.1	21.3	20.9	Pass
Fill	lbf	17.5	17.6	23.0	21.1	19.2	19.7	Pass
Client Requirement: Warp - 10 lbf and Fill - 8 lbf Minimum								

Test Unit of Measure		Specimen Results			Average	Pass/Fail
Seam Strength **ASTM D751, Modified** 1" x 3" jaws 12 ± 0.5 in./min.						
As Received at Room Temperature of 70.8°F						
	lbf	85.67	115.02	109.54	103.41	Pass
After Heat Exposure						
	lbf	89.17	121.34	129.29	113.27	Pass

Modified to place specimens into the oven at set temperature:
Oven Temperature: 140°F ± 5°F (60°C ± 2.8°C)
Oven Exposure: 30 minutes (± 1) minute
Test Specimens: test within 10 (± 1) minutes or when the specimen

Client Requirement: As Received - 45 lbf, After heat exposure - 30 lbf Minimum

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Signed: _____ Eric Olson, President

Signed: _____ Suzanne Piispanen, COO