



# Test Report

Electrical Market Laboratory

No.: TR-003974

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**Subject:** 3M Scotchcast 2131 resin

**Type of Test:** Determine Resistance to Salt Water

**Specifications:** ISO 175

**Date of Test:** February to May 2011

**Test Summary:** The Resistance to a 10 % Salt Water Solution was determined

**Date:** July 26, 2011

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## 1. Determination of the resistance to a salt water solution

Four flat samples of 3M Scotchcast 2131 resin were stored 16 weeks in a 10 % salt water solution. The increase in weight of the samples was measured after two, four, eight and 16 week.

**Table 1:** Increase in weight

initial	after 2 Weeks			after 4 Weeks			after 8 Weeks			after 16 Weeks		
		[Δg]	[Δ%]		[Δg]	[Δ%]		[Δg]	[Δ%]		[Δg]	[Δ%]
8,9139	9,0095	0,0956	1,07	9,0186	0,1047	1,17	9,0188	0,1049	1,18	9,0170	0,1031	1,16
9,8404	9,9435	0,1031	1,05	9,9565	0,1161	1,18	9,9591	0,1187	1,21	9,9564	0,1160	1,18
9,9695	10,0741	0,1046	1,05	10,0891	0,1196	1,20	10,0906	0,1211	1,21	10,0886	0,1191	1,19
8,5900	8,6834	0,0934	1,09	8,6929	0,1029	1,20	8,6918	0,1018	1,19	8,6891	0,0991	1,15
			1,06			1,19			1,20			1,17

## 2. Conclusion

The increase in weight of four flat samples of 3M Scotchcast 2131 resin was determined. The maximum mean value was 1,2 % after eight weeks. No visual effects to the material were detected after the test period of 16 weeks.

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**Appendix A: Pictures of the test specimens****Picture 1:** A test specimen before the test**Picture 2:** A test specimen after two weeks in 10% salt water solution

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**Picture 3:** A test specimen after four weeks in salt water solution



**Picture 4:** A test specimen after eight weeks in salt water solution

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**Picture 5:** A test specimen after 16 weeks in salt water solution