

**TEST REPORT**

**CHOMERICS  
Long Term Aging Study: High Temperature and Humidity Exposure  
Versus Electrical (Through) Resistance Property Change of  
CHOFORM® 5541 & CHOFORM® 5550**

Prepared by: CHOMERICS R&D  
84 DRAGON COURT  
WOBURN, MA 01801

Date: January 2007

Test Report Number: TR 1015 EN 01/07

Chomerics Approved Signatory:

This report shall not be reproduced except in full without the written approval of Chomerics.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

CHOMERICS and CHOFORM are registered trademarks of Parker Hannifin Corporation.  
© January 2007. All rights reserved.

**Test Method:**

ASTM D991: Standard Test Method for Rubber Property-Volume Resistivity Of Electrically Conductive and Antistatic Products.

**Summary:**

The following data was obtained from a 1mm bead of Cho-Form 5541/5550 dispensed on an Al flange @ 10% compression after continuous exposure to 85°C / 85% Relative Humidity.

Exposure Time (hrs)	Electrical Through Resistance (mohm)	
	CHOFORM® 5541	CHOFORM® 5550
Initial	4.0	3.0
48	9.0	5.0
1008	3200.0	105.0

- After 48 hours of exposure CF5550 is 1.8X more conductive than CF5541.
- After 1008 hours of exposure CF5550 is 30X more conductive than CF5541.

**Conclusion:**

Both CHOFORM 5541 and CHOFORM 5550 have been developed to offer continuous shielding performance in long term aging environments including temperature and humidity conditioning at 85°C / 85% RH. CHOFORM 5550 is the preferred FIP material if superior shielding performance is required.