

# PRODUCT ADVISORY NOTICE

## KEEPING YOU INFORMED OF PRODUCT CHANGES

**To:** All 90 Series DIP Switch Customers, Sales Representatives and Distributors

**Date:** July 20, 2014

**Subject:** Base and Cover Plastic Material Change

This Product Advisory Notice is to alert you that there is a coming change to a series of Grayhill DIP switches and our records show your company has purchased one or more of the affected part numbers in the past. Please forward this notification to the appropriate person(s) in your organization.

### Description of the Change

The thermoplastic material that is used in the base and cover piece parts is changing from 30% glass filled polyamide (PA46) to 33% glass filled polyphthalamide (PPA).

### Reason for Change

The new material performs better than the current material in reflow process applications where more demanding process temperatures are used. The new material also improves the tape seal adhesion to the switches by virtue of being less susceptible to moisture absorption during processing or storage. The new material has the added benefit of being Halogen Free and of meeting all current RoHS and REACH requirements.

### Effective Date

All two through eight position 90 Series DIP switches manufactured after August 30th (date code 1436 or later) may be built with either PA46 or PPA.

### Part Numbers Affected

The table below lists the Grayhill part numbers included in the change notice:

<u>2s</u>	<u>3s</u>	<u>5s</u>	<u>6s</u>	<u>8s</u>	<u>10s</u>	<u>Custom</u>	
90B02SLT	90B03ST	90B05SLT	90B06ST	90B08SLT	90B10SLT	90YY2882R	90YY3143SGWR
90B02ST	90HBJ03PT	90B05ST	90B06T	90B08ST	90B10ST	90YY2901S	90YY3145SGWR
90HBJ02PRT	90HBW03PRT	90HBJ05PRT	90CR06SGWRT	90GB08ST	90GB10ST	90YY2923SGWR	90YY3148SGWR
90HBJ02PT	90HBW03PT	90HBJ05PT	90HBJ06PRT	90HBJ08PRT	90HBJ10PRT	90YY2928SGWR	90YY3203SGWR
90HBW02PRT		90HBW05PRT	90HBJ06PT	90HBJ08PT	90HBJ10PT	90YY3048S	90YY3205SGWR
90HBW02PT	<u>7s</u>	90HBW05PT	90HBW06PRT	90HBW08PRT	90HBW10PRT	90YY3048SR	90YY3326PR
90HBW02RT	90B07ST	90HBW05T	90HBW06PT	90HBW08PT	90HBW10PT	90YY3062SR	90YY3370PR
90HBW02T	90HBW07PRT	90HGBW05PRT		90HBW08RT	90HBW08RT	90YY3111SR	90YY3371PR
	90HBW07PT					90YY3142SGWR	90YY3372SGWR

### Test Data Available

A summary of the tests performed on the new material is attached to this notice. The full test report is available on: <http://www.grayhill.com/about-us/product-advisory-notices/>

### Action Required

Please forward this notification to the appropriate person(s) in your organization. No other action is required. However, if you would like to receive a free sample, please contact your Grayhill, Inc. sales associate.



**1.3. TEST SUMMARY**

**Table 1 – Test Summary**

Test Description	Basic Standard	Test Results	Test Date	Test Location
Thermal shock	MIL-STD-202 Method 107G, PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Mechanical Life	MIL-STD-83504/12, PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Dielectric Withstand Voltage	MIL-STD-202 Method 301, PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Contact Resistance	MIL-STD-202 Method 307, PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Moisture Resistance	MIL-STD-202 Method 106, PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Insulation Resistance	MIL-STD-202 Method 302, PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Resistance to Reflow Solder Processing	PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Process Seal	MIL-STD-202 Method 112, PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Mechanical Shock	MIL-STD-202 Method 213, PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Vibration Resistance	MIL-STD-202 Method 204 PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Terminal Strength	MIL-STD-202 Method 211A, PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Thermal Aging	MIL-STD-202 Method 108A , PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Solderability	MIL-STD-202 Method 208, PS90 – Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Flammability	IEC Standard 60695-11-5 UL-94, PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.
Operating Force	PS90 – 90 Series Product Specification	<b>PASS</b>	01/30/2014 To 02/24/2014	Grayhill, Inc.