

Honeywell International Inc. Sensing & Control Division 1985 Douglas Drive North Golden Valley, MN 55123

Patrick Mayze Newark Electronics October 31, 2014 Sarah Vorwald

Subject: Notification of Potting Material Change from Henkel Stycast 4952 Potting Material to Henkel Stycast 4350 Potting Material

Background:

Henkel, one of Honeywell Sensing and Control's suppliers of epoxies and adhesives, has notified us that they have discontinued Stycast 4952, a thermally conductive RTV silicone encapsulant or potting material that we use in a number of our aerospace sensors and switches. A list of the affected Honeywell products is provided in Table 1.

As a replacement for its Stycast 4952, Henkel has recommended its Stycast 4350. Honeywell has placed a last time buy for the current Stycast 4952 to support our production until we qualify the proposed Stycast 4350 by manufacturing trials and evaluation testing. Estimated timing for our qualification of Stycast 4350 is by or before December 2014.

Discussion:

Attached below are the technical data sheets published by Henkel for both materials. In our testing, we have found the physical, thermal, and electrical properties of both the current Stycast 4952 and proposed Stycast 4350 materials to be similar and have found that the proposed material met or exceeded the specs for the current material as they relate to adhesion and tear resistance.





During our manufacturing trials, flow properties and curing characteristics were confirmed to be the same for both the current and proposed materials. Adhesion of the proposed material to metal substrates and wire insulation was also confirmed to be the same as the current material. Tear resistance of the proposed material meets or exceeds the specs of the current material. Resistance of the proposed material to various fluxes that may be used in soldering operations also meets or exceeds the resistance specs of the current material.

Representative switches and sensors have been built using proposed Stycast 4350 and will undergo product level testing per the attached test plans. Samples are available upon request. Honeywell



expects the representative switches and sensors built using the proposed material will pass the planned validation testing.



Next Steps:

As stated above, Honeywell placed a last time buy for the current Stycast 4952 and this will support ongoing production through December 2014. Phase in of the proposed Stycast 4350 is planned to begin with December 2014 / January 2015 shipments once validation testing is complete. Our next communication will be in the 4th quarter 2014 to communicate completion of the validation testing and to provide updated changeover date expectations.

Best Regards,

James Norman

Global Product Marketing Manager James.norman2@honeywell.com

763-954-5104

Table 1

D	D	\sim	n	11	C.	т
Г	п	v	v	u	v	

103FW12-R1 103FW12-R3 103FW41-R1 103FW5-4 112FW12-4 112FW127-R1S 112FW12-R1 112FW312-R1 114FW128-4 122FW12-4 122FW12-4S 122FW12-R1 122FW12-R1A 124FW12-4 172FW121-R3 172FW121-R4 21FW-74 21FW-R1 23FW-R2 726328 726328 12HR25-14B 12HR34-1B 2HT15-6 4TF2-2 4TF3-2 701PB542 701PB542-OY 701PB542-RG 701PB542-WOG 701PB580 701PB583 701PB584 701PB585 701PB586 701PB587 701PB590 701PB592 702PB121 702PB503 702PB507 702PB542 702PB542-WBW

5HM1 6HM1-1 6HM1-16 6HM1-2 6HM1-3 6HM1-6 6HM2-1 6HM3-1 6HM4 6HM4 6HM42-1 6HM4-3 6HM47-1 6HM48-1 6HM5-2 6HM7-3 6HM7-30 6HM7-6 6HM82 6HM89 8HM102 8HM103 8HM1-1 15HM2 16HM1-1 16HM1-1 16HM14 16HM32 16HM4 16HM44-3 16HM44-6 16HM45-6 16HM5 18HM1-1 18HM11-2 18HM1-2 18HM12-2 18HM13-2 18HM14-2 18HM15-2 18HM20

18HM3-1

18HM49

18HM50 18HM52-1 19HM1 19HM1 20HM1-1 20HM11-2 20HM12-2 20HM13-2 20HM2-1 20HM23-1 20HM24-1 20HM27-2 20HM27-3 20HM3-1 20HM4-1 20HM6-1 38HM4 38HM9 38HM10 38HM30 38HM33 38HM36 38HM53 38HM54 38HM61 38HM62 38HM68 38HM69 38HM73 38HM79 38HM80 38HM81 38HM82 38HM90 38HM91 39HM1 39HM2 120HM23-1 120HM5-1