

## SHELF LIFE OF DRY PACKED INTEGRATED CIRCUITS

### **Shelf Life**

Nordic Semiconductor's parts are generally shipped in moisture-barrier bags (MBB) labeled with a specific indication of calculated shelf life for the components in question.

Unless otherwise expressly noted, expectancy shelf life for dry packed parts is minimum 2 years from bag seal date, provided storage conditions of < 40°C and < 90% RH. Within this period, and as long as the Humidity Indicator Card (HIC) does not indicate a need for re-baking, it is safe to reflow components per original MSL rating.

### **Prolonged Storage**

Customers that may require storage beyond standard shelf life are advised to follow all relevant recommendations outlined in JEDEC publication JEP160.

Following prolonged storage, products in question should be subjected to relevant tests prior board assembly, including but not limited to:

- Solderability Test (JESD 22-B102, J-STD-002 or similar test),
- Functional Test

### **Humidity Indicator Card (HIC)**

Before opening, the MBB should be inspected for punctures or openings of any kind that might expose its contents. If openings are found, and the HIC indicates maximum humidity has been exceeded, be it within or beyond the Standard Shelf life, the parts in question should be re-baked according to IPC/JEDEC J-STD-033 and otherwise be subjected to relevant testing prior use, ref. "Prolonged Storage" above.

### **Date Code policy**

Nordic Semiconductor's standard policy for integrated semiconductor devices is to ship products with assembly date codes no older than 5 years.

### **Warranty**

Nordic Semiconductor's warranty terms are outlined in the company's Standard Terms & conditions.

**Important Notes**

The provisions of this document apply to products shipped on and after its effectivity date only.

Subject to change without prior notice.

Unanticipated factors other than moisture sensitivity can affect the total shelf life of components

**For any further inquiries relating to this statement, please contact your local sales representative.**