Humidity Specifications

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Humidity Specifications

Humidity

- Integrated circuits typically are not perfectly hermitically sealed.
- In high humidity conditions, water vapor can enter the package and cause corrosion → failure over time
- One solution is to bake the parts prior to usage
 - This forces the water vapor out of the part
 - Parts are characterized by their Moisture Sensitivity Level (MSL)
 - The time a part can be outside a 'dry' storage environment before it must be baked to remove excess water vapor

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MSL 6 – Mandatory bake before use
MSL 5A – 24 hours
MSL 5 – 48 hours
MSL 4 – 72 hours
MSL 3 – 168 hours
MSL 2A – 4 weeks
MSL 2 – 1 year
MSL 1 – Unlimited floor life
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