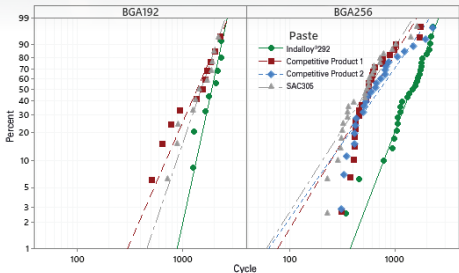


High-Reliability Alloy Indalloy[®] 292

Indalloy[®] 292 provides exceptional thermal cycling performance (-40/+150°C).

Superior BGA Lifetime Reliability

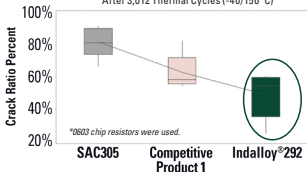
-40/+150°C Thermal Cycle Testing on OSP Weibull Plot



Indalloy[®] 292 demonstrates superior TCT performance over competing high-reliability alloys.

Solder Joint Crack Comparison*

After 3,012 Thermal Cycles (-40/+150°C)



DEFECT:
Cracking

SOLUTION:
Indalloy[®] 292

Excellent thermal cycling performance (-40/+150°C). High shear strength and low solder joint cracking. Pinhole elimination improves joint appearance.

Contact our engineers: askus@indium.com
Learn more: www.indium.com

All of Indium Corporation's solder paste and preform manufacturing facilities are IATF 16949:2016 certified. Indium Corporation is an ISO 9001:2015 registered company.

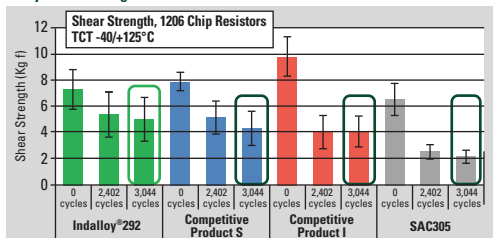
High-Reliability Alloy Indalloy[®] 292

Enhanced TCT Reliability



Indalloy[®] 292 contains 5.5% antimony, increasing the number of in situ SnSb particles to prevent the formation of fatigue cracks during high-temperature thermal cycling.

-40/+125°C Thermal Cycling Alloy Shear Strength



Using a high-reliability solder will ensure reliability throughout a vehicle—from room temperature conditions to AEC grades 1 and 0 with peak ambient temperatures of 125°C and 150°C, respectively.

Thermal cycling from -40 to +125°C degrades joint strength more gradually than under more strenuous conditions for all alloy compositions. After 3,000 cycles, Indalloy[®] 292 maintains shear strength and reliability.

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