

## PRODUCT DATA SHEET

# PoP Flux 89LV-P

## Package-on-Package

### Introduction

**PoP Flux 89LV-P** is a thixotropic no-clean flux designed for package-on-package applications with Pb-free solders. **PoP Flux 89LV-P** has a unique activator system that provides enhanced solderability onto all common metallizations.

### Features

- Application by dipping or dispensing
- Optimized for Pb-free (SAC alloy) applications
- Excellent solderability with Cu-OSP, AuNi, and immersion Ag finishes
- Air or nitrogen reflow
- Air-free packaging

### Properties

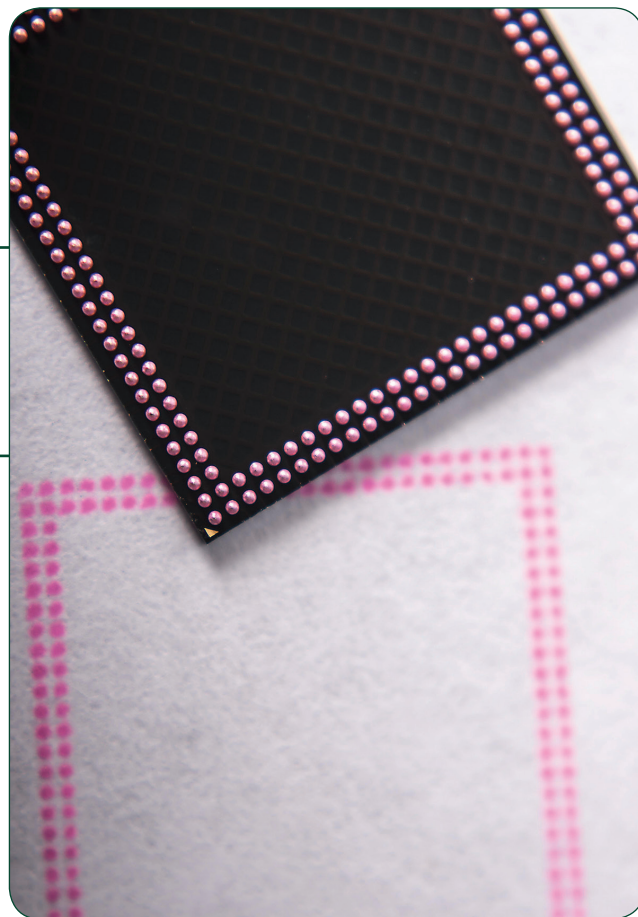
	Value	Test Method
Flux Type Classification	ROL1	J-STD-004 (IPC-TM-650: 2.3.32 and 2.3.33)
Typical Viscosity	10kcps	Cone and plate viscosity (5 minutes)
SIR (Ohms, after reflow)	Pass (>10 <sup>8</sup> after 7 days @ 85°C and 85% RH)	J-STD-004 (IPC-TM-650: 2.6.3.3 IPC-B-24)
Typical Acid Value	120mg KOH/g	Titration
Typical Tack Strength	180g	J-STD-005 (IPC-TM.650: 2.4.44)
Shelf Life	1 year (0–30°C)	Viscosity change/ microscope examination
Color	Pink	Visual

*All information is for reference only.*

*Not to be used as incoming product specifications.*

### Application

The volume of flux on the package can be optimized by changing equipment parameters. Key variables include: sphere size, sphere pitch, flux shear speed, flux reservoir depth, and dwell time. Viscosity can be optimized per application by appropriate equipment setup.



### Cleaning

**PoP Flux 89LV-P** is designed for no-clean applications, and can be left in place on the final package. If necessary, flux residues can be removed by using a commercially available flux cleaner. Contact an Indium Corporation Technical Support Engineer for recommendations on flux cleaners.

### Packaging

**PoP Flux 89LV-P** is only available in air-free 10 or 30cc syringes.

### Storage

For maximum shelf life, **PoP Flux 89LV-P** syringes and cartridges should be stored tip down. Storage temperatures should never exceed 30°C. After removing from cold storage, **PoP Flux 89LV-P** should be allowed to stand for at least 4 hours at room temperature before using.



**From One Engineer To Another®**



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### Technical Support

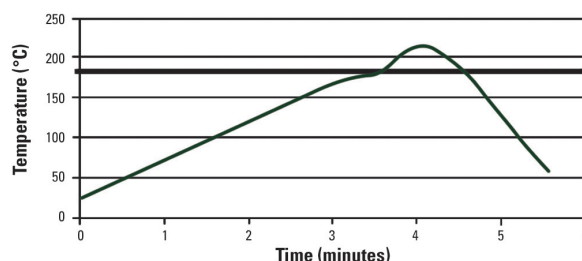
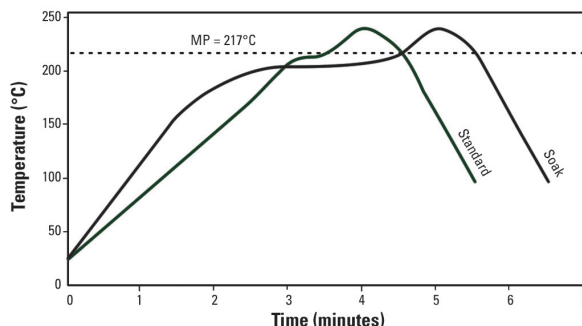
Indium Corporation sets the industry standard in providing rapid response, onsite technical support for our customers worldwide. Indium Corporation's team of Technical Support Engineers can provide expertise in all aspects of Materials Science and Semiconductor Packaging process applications.

### Safety Data Sheets

The SDS for this product can be found online at <http://www.indium.com/sds>

### Reflow

#### Recommended Profile:



Peak reflow temperature should be <250°C in an air or nitrogen atmosphere, with a linear ramp up to approximately 30°C above the solidus temperature.

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