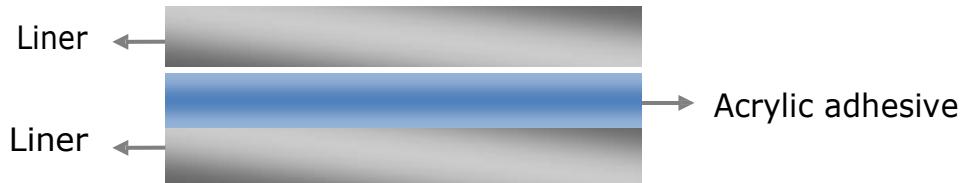


**Description:**

POLYONICS 300 is a high temperature, solvent, acrylic, pressure sensitive adhesive provided with two release liners.

**Features:**

- Solvent Acrylic
- Higher heat resistance
- Works well in humid environments
- Good shear
- Plasticizer and solvent resistant
- REACH and RoHS compliant

**Applications:**

Ideal for bonding materials that will tolerate high temperatures, chemical exposure, and humidity. This adhesive system has a proven track record as an adhesive for tapes and labels used in printed circuit board assembly applications.

**Special Considerations:**

- The surface on which the adhesive is to be applied should be clean, dry and free of any surface contamination, such as dust, oil or rust. Isopropyl alcohol would be a recommended solvent to clean the surface.
- Pressure sensitive adhesives should be laminated or applied at warm temperatures (>50F) for optimal adhesion.
- All values shown are averages and should not be used for specification purposes. Adhesion and tack values have a 15% tolerance allotted to the values stated.
- Test data and test results contained in this document are for general information only and shall not be relied upon by POLYONICS customers for designs and specifications, or be relied on as meeting specified performance criteria.
- Customers desiring to develop specifications or performance criteria for specific product applications should contact Polyonics for further information
- Complete removal from substrates may depend on temperature and the duration of time the tape experiences the temperature.

**Technical Data**

| Property                                | Test Method                  |  | XA-1030                               | XA-1031         |
|-----------------------------------------|------------------------------|--|---------------------------------------|-----------------|
|                                         |                              |  |                                       |                 |
| <b>Thickness</b>                        | ASTM D1000                   |  |                                       |                 |
|                                         | Top Paper Liner              |  | 3.2 mil (81um)                        | 3.2 mil (81um)  |
|                                         | 300 Adhesive - Acrylic       |  | 1.1 mil (28um)                        | 1.5 mil (38um)  |
|                                         | Base PET Liner               |  | 1.5 mil (36um)                        | 1.5 mil (36um)  |
|                                         |                              |  |                                       |                 |
| <b>Adhesion</b><br>(stainless)          | Polyonics 80313 <sup>1</sup> |  | 1 mil polyimide                       | 2 mil polyimide |
|                                         | 20 minute dwell              |  | >27 oz/in                             | >35 oz/in       |
|                                         | 24 hour dwell                |  | >30 oz/in                             | >40 oz/in       |
|                                         |                              |  |                                       |                 |
| <b>Shear</b>                            | SAFT ASTM D4498 <sup>2</sup> |  | 190C                                  | 190C            |
|                                         |                              |  |                                       |                 |
| <b>Tack</b>                             | 80155                        |  | 800 g/in                              | 1000 g/in       |
|                                         | 1 mil polyimide              |  |                                       |                 |
|                                         |                              |  |                                       |                 |
| <b>Maximum Temperature</b> <sup>3</sup> | Short Term (< 15 min)        |  | Up to 260C                            | Up to 260C      |
|                                         | Long term (>6 hrs)           |  | Up to 175C                            | Up to 175C      |
|                                         |                              |  |                                       |                 |
| <b>Shelf Life</b>                       |                              |  | 1 year when stored below 80F & 60% RH |                 |
|                                         |                              |  |                                       |                 |

- Notes: 1) 180 degree peel adhesion with substrate being 2 mil polyimide film  
2) Laminated to 2 mil PET film  
3) Maximum temperature is based minimal adhesion loss for dwell time.



**Technical Data Sheet**  
**300 Adhesive**  
**Adhesive Transfer Tapes**

**Polyonics Material Compliance**

|                                                                                                 |                                                                         |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>RoHS</b> (Restriction of Hazardous Substances) EU Directive 2002/95/EC                       | Limits set forth in Directive 2005/618/EC amending Directive 2002/95/EC |
| <b>REACH</b> (Registration Evaluation and Authorization of Chemicals) EU Directive 1907/2006/EC | Limits set forth in Directive 1907/2006/EC Article 7 (2)                |
| <b>Halogen Free</b> - Restriction use of Halogen (IEC 61249-2-21)                               | Limits set forth in International Electrochemical Commission            |

**WARRANTY-LIMITATION**

Polyonics' products are sold with the understanding that the Buyer will test them in actual use and determine for him/herself their adaptability to his/her intended uses. Polyonics warrants to the buyer that its products are free from defects in material and workmanship, but limits its obligations under this warranty to replacement of the products shown to Polyonics' satisfaction to have been defective, if the Buyer has complied with the handling, storage and shelf life requirements as specified by Polyonics in applicable materials specifications.

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