



**Description:** TAP Poly-Weld Adhesive is a flexible, toughened, non-corrosive, structural adhesive specially designed for various applications and substrates, including bonding of Polyethylene, Polypropylene, ABS, PVC, ceramics and cement. It has been formulated for superior exterior performance, gap filling, impact and fatigue resistance. It's toughness, imparted by flexibility, causes the energy required to break a bond to be significantly higher than brittle epoxies. Lap Shear Psi, plus high break-energy Psi afford bonds strength/resiliency. Bond results to Polyethylene and Polypropylene after executing flame-treating instructions. Poly-Weld is UV resistant, but may discolor with long term exposure.

### Typical Properties:

<b>Mixed Color</b> .....	White
<b>Thixotrophy</b> .....	Non-sagging gel
<b>Elongation (%)</b> .....	100+
<b>% Solids (by Volume)</b> .....	100
<b>Viscosity (@ R.T., cps)</b> .....	(Resin 245,000) (Hardener 178,000) cps
<b>Service Temperature</b> .....	-40°F – 200°F
<b>Density (gr./cc)</b>	
Resin .....	1.25
Hardener .....	0.99
<b>Mixing Ratio</b>	
(PBW) .....	1.27:1
(PBV) .....	1:1
<b>Working Time (7 gr. Min)</b> .....	15-30
<b>Cure Cycle (at 23°C)</b>	
Handling Time .....	1-2 hours
Functional Cure .....	24 hours
Full Cure .....	7 days
Tensile Strength (Psi) .....	1,150+
<b>Lap Shear (Psi)</b>	
ABS .....	800+
Aluminum .....	1,000+
Ceramic (compressive shear) .....	1,500+
Cold Rolled Steel .....	1,500+
Concrete (compressive shear) .....	2,000+
Copper .....	1,000+
Fiberglass gel coat .....	1,000+
Low Density Polyethylene (PE) .....	500+
High Density Polyethylene (HDPE) .....	2,000+
Polypropylene .....	1,500+
PVC .....	1,400+
<b>Flexural Modulus (Psi)</b> .....	8,000+
<b>Service Temperature</b> .....	-40°F to 200°F

Visit our website: [tapplastics.com](http://tapplastics.com)

**TAP Plastics Corporate Office** • 3011 Alvarado Street, Suite A • San Leandro, CA 94577 • (510) 895-8249 • Fax (510) 895-9613  
**14 TAP stores in Northern California • 2 in Oregon • 3 in Washington**  
For the location nearest you go to [tapplastics.com](http://tapplastics.com)

January 2018