## **Process Comparison Chart**

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Applicable Part Sizes	Sm-Med	Med-Lg	Med	Sm-Med	Med	Med
Assembly Techniques						
Welding	•	•	•	•	•	
Staking	•			Some		•
Swaging	•			Some		•
Inserting	•					•
Spot Welding	•					
De-gating	•			•		•
Date Coding/Embossing				•		•
Materials (must be Thermoplastic	:)					
Amorphous	•	•	•	•	•	•
Semi-Crystalline	Small Parts	•	•	•	•	•
Flexible Materials (e.g. TPE)	Some	Some	•	•	Some	Staking
Film and Fabrics	•	Some	Some	Some		
Cost						
Energy	\$	\$\$	\$\$\$	\$	\$	\$\$
Labor	\$	\$\$	\$\$	\$\$	\$	\$\$
Equipment	\$	\$\$	\$\$	\$\$\$	\$	\$
Tooling	\$	\$\$\$	\$\$	\$	\$	\$
Performance						_
Weld Strength	₩	₽H	₽ <mark>H</mark>	₽ <mark>M</mark>	₩	_
Cycle Time		•	•	•	•	•
Resultant Stress Levels	₩M	₩	₩	₽₽L	₩	<u> </u>
Part Requirements						
Structural/Hermetic Seals	•	•	•	•	•	_
Thin Walled Parts	•		PD	•		_
Multiple Parts per Cycle	PD	•	•	•		•
Uniform/Solid Flash			•			•
Multi-level or Curved Joints	PD	•	•	•		•
Welding Internal Surfaces	•	PD	•	•		_

Part Size KEY: Sm = Small Parts Med = Medium Size Lg = Large Parts
Cost KEY: \$ = Low Cost \$\$ = Average Cost \$\$\$ = Expensive
Performance KEY: L = Low M = Medium H = High
Part Requirements Key: PD = Part Dependent