

FLEXcon® SA3000 Adhesive Series

Product Description

Silicone adhesives can be ideal solutions for applications that require extremely aggressive permanent bonds. They are engineered to withstand difficult environments and stresses. Recommended applications include: Industrial assembly, transit manufacturing, durable goods, gasketing and sealing.

FLEXcon's SA3000 adhesive is a tacky, clear silicone adhesive.

Performance Benefits

- Tacky, silicone adhesive offers quick stick reducing assembly time.
- Ideal for moderate temperature extremes ranges -40°F to 302°F (-40°C to 150°C).
- Bonds well to silicone materials including foam, sponge, and rubber and industrial substrates including stainless steel, aluminum and other industrial surfaces.
- Available as single- or double-coated constructions. Not available as a transfer tape.

Certification Recognition

- ISO 9001:2008 Certified Manufacturer

Finishing Options

Master Log rolls can be cut to meet the needs of your manufacturing process or end use requirements. Roll sizes start at 1". For custom finishing, standard charges apply.

Product Technical Data

Thickness (Mils [Microns])	Adhesive (+/- 10%) 1.9-2.1 (48-53) +/-0.1 (3)						ASTM D 3652	
Peel Average 90° angle 12"min		Average 15 min		Average 3 days RT		Average 3 days 160°F		ASTM D 3330 (Modified for dwell time) (All peels laminated to 2 mil. foil)
		Oz/in	(N/m)	Oz/in	(N/m)	Oz/in	(N/m)	
	Acrylic	-	-	57	(627)	-	-	
	Glass	-	-	58	(638)	-	-	
	Polypropylene	-	-	54	(594)	-	-	
Stainless Steel	53	(583)	59	(649)	83	(913)		
Expected Shear (hours)	2.0 mil Clear Polyester			2.0 mil Aluminum Foil			ASTM D 3654 (1 hr. dwell, 1 sq. in. surface, 4 lb. load)	
	35			40				
Tack (gm)	2.0 mil Clear Polyester			2.0 mil Aluminum Foil			Method A ASTM D 2979	
	1080			1180				

Expected Exterior Life	Dependant on life of substrate; adhesive is suitable for outdoor applications
Service Temperature Range	-40°F to 302°F (-40C to 150°C)
Minimum Application Temperature	50°F (10°C)
Storage Stability	Two years stored at stored at 70°F (21°C) and 50% RH

Product Technical Data: Humidity Resistance

Adhesion Retention	Adhesive on 200 PM Clear Film 2.0 mil clear polyester		90° angle 12"min 7 days + 24 hour recovery All testing on SS panel at 100°F and 95% RH. 24 hour dwell time on SS panel before humidity exposure.
	No visual change, 5% adhesion gain		

Product Technical Data: Chemical Resistance

Adhesion Retention	Solvent	Adhesive on 200 PM Clear Film 2.0 mil clear polyester	90° angle 12"min with 24 hour recovery All testing on SS panel at 100°F and 95% RH. 24 hour dwell time on SS panel before immersion.
	1 hour at RT in Gasoline (unleaded)	Edge penetration, 15% adhesion loss	
	1 hour at RT in MEK (Methyl Ethyl Ketone)	Edge penetration, 10% adhesion gain	
	72 hours at 120°F (49°C) in Oil (SAE-10W-30)	No visual change, 10% adhesion gain	
	72 hours at RT in Salt Water (6% by weight)	No visual change, 10% adhesion gain	
	100 hours at RT in Water	No visual change, 20% adhesion gain	

Release Liner Options

FLEXcon® SA3000 series adhesive is available as single-and double-coated constructions with the following liner:

200 Poly FSR MT
2.0 mil clear, ultra smooth polyester release liner. Good for diecutting.

Master Width: 38" and 54"

Application Techniques

When applying pressure-sensitive adhesives it is necessary to provide pressure during lamination. Compare to acrylic and rubber base pressure sensitive adhesive; Silicone pressure-sensitive adhesive generally take longer time to form a good bond. Lower tack adhesive will require longer dwell time, higher pressure and/or higher temperature to achieve good bond. Heat can increase bond strength (generally this same increase is observed at room temperature over longer times).

For best results, the application surface and the surrounding ambient atmosphere should be 50°F (10°C) or above. If applying the adhesive below 50°F (10°C), the application surface should be cleaned with isopropyl alcohol (rubbing alcohol) to insure good initial adhesion. Adhesive must be at room temperature during application if surface is below 50°F (10°C).

Product Performance and Suitability

All of the descriptive information, the typical performance data, and recommendations for the use of FLEXcon products shall be used only as a guide and do not reflect the specification or specification range for any particular property of the product. Furnishing such information is merely an attempt to assist you after you have indicated your contemplated use and shall in no event constitute a warranty of any kind by FLEXcon. All purchasers of FLEXcon products shall be responsible for independently determining the suitability of the material for the purpose for which it is purchased. No distributor, salesman, or representative of FLEXcon is authorized to give any warranty, guaranty, or make any representation in addition or contrary to the above.