

BISCO® Silicones

CHEMICAL RESISTANCE DATA SHEET

BISCO® Silicone materials provide design solutions for applications in Transportation, Communication, and Industrial markets. The following chemical resistance information, when used with the typical physical properties for each material, is provided to assist in assessing suitability for each application.

	Tensile S	Tensile Strength & Dimensional Stability (% Change)				C	Compression Set (%)						Little to No Interaction —— Not Recommended							
	1: 0-20	2: 20)-40 3:	40-60	4: 60-8	30 5 : 80	0-100		1: 0-5	2: 5-10	3: 10	D-15	4: 15+							
			TE	NSILE S	TRENG	тн					DIME	NSION <i>A</i>	AL STAE	BILITY			C	OMPRE:	SSION S	ET
		WI	ET			D	RY			w	ET			D	RY			D	RY	
SOLVENT MEDIUM	A	В	С	D	А	В	С	D	Α	В	С	D	А	В	С	D	Α	В	С	D
Acids and Bases																				
10% Ammonia Water	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10% Acetic Acid	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10% Hydrochloric Acid	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10% Potassium Hydroxide	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10% Sodium Bicarbonate	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10% Sulfuric Acid	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Alcohols																				
Isopropyl Alcohol	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Methyl Alcohol	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Automotive Fluids																				
Brake Fluid	4	4	3	2	1	1	1	1	2	2	2	2	1	1	2	1	1	1	1	1
Coolant (50% Ethylene Glycol)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dimenthylcarbonate	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Gasoline	4	4	3	2	1	1	1	1	2	2	2	2	1	1	2	1	1	1	1	1
Motor Oil	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1
Power Steering Fluid	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1
Transmission Fluid	1	1	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1
Washer Fluid	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Household Cleaners																				
Fantastik®	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Formula 409®	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mr. Clean®	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Miscellaneous																				
Distilled Water	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

		THICKNESS							
CHART DESCRIPTION	BISCO® SILICONE MATERIAL GRADE	inches	mm						
Α	BISCO Silicone BF-1000 Series	0.125	3.18						
В	BISCO Silicone HT-800 Series	0.125	3.18						
С	BISCO Silicone HT-1250 Series General Purpose Solids	0.125	3.18						
D	BISCO Silicone HT-6240 Series Performance	0.125	3.18						

All listed values are typical. Typical values are a representation of an average value of the property for a given population of the product. For specification values contact Rogers Corporation.

TEST METHOD

Immersion duration for 168 hours (1 week), at room temperature, followed by 48 hours (2 days) drying. Material properties evaluated were tensile strength, dimensional stability and compression set resistance. Please refer to the Industrial Materials Physical Properties data sheet for specific test methods.

RESULTS:

In general, BISCO® Silicone materials show excellent or very good resistance when exposed to dilute acids and bases, organic fluids and petroleum products. When wet, the materials exhibit swelling and a reduction in properties.

For additional product and design recommendations, please contact your Rogers Sales Engineer.

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ROGERS CORPORATION-HIGH PERFORMANCE FOAMS DIVISION US 800.935.2940 | Europe +32.9.235.36.11 | Asia +86.512.6258.2700

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