

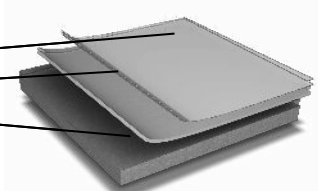
Technical Data Sheet - Silinol Classic

Update 07/08/25
Version 2.0



General Description

Manufacturer	SJ Innotech
Product Name	Silinol Classic
Original Application	Synthetic Upholstery
Composition	Surface Composition: 50% Silicone Substrate Composition: 50% Polyester
Country of Origin	South Korea



Property	Testing Standard	Value
Weight	ASTM D3776	≈ 570 GSM (16.9 oz/yd ²)
Thickness	ASTM D1777	1.7 mm +/- 0.15 mm
Width	-	54 inch

Thermal and Flame Performance

Silinol silicone leather is naturally flame retardant and does NOT need additional flame retardants.		
California Technical Bulletin 117.13	Pass	BS 5852: 2006 Crib 5
IMO 210 Part 8	Pass	UFAC Class 1
FMVSS 302	Pass	NFPA 260

Physical Performance

Property	Testing Standard	Value
Abrasion Resistance (Wyzenbeek)	ASTM D4157-13	200,000+
Adhesion	ASTM D751-06	Min 6 lbs
Elongation	ASTM D751-19	Length: 117.9%, Width: 87.7%
Flex Resistance	ASTM D6182-23	RANK 1 (No Damage, 25,000 cycles)
Crocking Resistance	AATCC TM8-2016e	DRY: 4.5, WET: 4.5
Tear Strength: Tongue Wear	ASTM D751-19	L: 38.4 N, W: 50.8 N
Stretch (%)	SAE J855: 2002	L: 24.8, W: 27.4, BIAS: 26.6
Set (%)	SAE J855: 2002	L: 1.5, W: 1.3, BIAS: 1.3
Grab Tensile	ASTM D751-06	L: 748 N, W: 1,190 N
Trap Tear	ASTM D751-19	L: 154.4 N, W: 162.4 N
Color Fastness to Water: Sea	AATCC 106-2013	4.5
Hydrolysis Resistance	ISO 1419: 1995 (Jungle Test)	PASS (No Damage)

Added Performance

Property	Testing Standard	Value
Stain Resistance	CFFA 141	Yes
UV Resistance	QUV - CFFA 2c	2,000 Hours
Colorfastness to Light	AATCC 16.3-2014, Option 3	500 Hours
Bleach Resistance	10% Dilution	Yes
Mildew Resistance	ASTM G21-13	Pass
Anti-Bacterial	AATCC 147-11	Pass
Cold Crack	CFFA-6a-2010	Pass
Sulfide Stain Resistance		Yes
Pink Stain Resistance	ASTM E1428	Pass
Anti-Static	AATCC-76	Pass
Salt Spray Resistance	ASTM B117	No Problem
Ink Resistance		Yes
Isopropyl Alcohol Resistance		Yes

Reduced Human Impact

Property	Testing Standard	Value
Cytotoxicity	ISO 10993-5	Pass
Dermatest (Skin Irritation)	ISO 10993-23: 2021	Excellent

Health Conscious Benefits

Toxin	Value
Heavy Metals	Non-Detectable
Phthalates	Non-Detectable for DEHT, DBT, BBT and DIBP
Chlorinated Phenols	Non-Detectable for PCP
Halogen Contents	Bromine - Non-Detectable, Chlorine - Non-Detectable
Organotin Compounds	Non-Detectable for TBT and DBT
Azo Dyes	Non-Detectable
Formaldehyde	Non-Detectable

Certifications

Dermatest
OekoTex Standard 100
SGS ISO 9001