

# Taconic PTFE & Silicone Rubber Coated Fabrics

The advantages of PTFE and silicone rubber coatings on fiberglass fabric are as numerous as the applications for which Taconic's engineered fabrics are suited. PTFE coated fiberglass is lightweight, durable and non-flammable as well as chemical and temperature resistant. It provides a nonstick surface, dimensional stability, weather resistance and is also a good electrical/thermal insulator.

Silicone rubber coated fabric offers a tough coated surface with high flex and slip coefficient properties. It is an excellent electrical insulator in harsh environments, offers outstanding release properties as well as chemical and abrasion resistance. Liquid Silicone Rubber (LSR) fabric offers a non-slip surface and some grades are approved for direct food contact.

## Applications

- Aerospace
- Food Processing
- Quick Service Restaurants
- Chemical Processing
- Packaging
- PVC Welding
- Lamination
- Composite Molding



# PTFE & Silicone Rubber Coated Fabric Typical Values

We offer fabric in several grades to cost effectively meet your application requirements

	Description	Part Number	Nominal Thickness (inches)	Total Coated Weight (lbs/sq yd)	Tensile Strength Warp/Fill (Typical) (lbs/inch)	Tear Strength Warp/Fill (Typical) (lbs)	Dielectric Breakdown (Typical) (volts/ml)	Operating Temp Min/Max °F	FDA Compliant	Max Widths (inches)
Premium Grade		7039	0.003	0.28	75 / 70	3.25 / 2.5	800	-100/500	Y	61.5
		7059	0.005	0.50	165 / 165	6.25 / 6.25	1100	-100/500	Y	62
		7069-TW-GRN	0.006	0.60	175 / 150	6.0 / 5.75	1100	-100/500	N	42
		7069	0.006	0.60	165 / 150	6.25 / 6.25	1100	-100/500	Y	62
		7109	0.010	1.0	300 / 175	10.0 / 8.0	650	-100/500	Y	62
		7119	0.0107	1.08	305 / 200	7.0 / 5.5	585	-100/500	Y	42.5
		7149	0.014	1.44	485 / 325	8.5 / 5.25	650	-100/500	Y	38
	7279	0.028	2.04	440 / 520	25.0 / 15.0	200	-100/500	Y	110	
Heavy Weight Premium		A1048	0.0245	2.16	565 / 545	18 / 17	175	-100/500	N	126
Standard Grade		7038	0.0028	0.26	95 / 70	3.25 / 2.5	1000	-100/500	Y	61.5
		7048	0.0038	0.38	100 / 70	4.0 / 1.0	840	-100/500	Y	38
		7058	0.0045	0.44	175 / 155	6.25 / 6.25	975	-100/500	Y	62
		7068	0.0056	0.56	165 / 150	6.25 / 6.25	1100	-100/500	Y	62
		7108	0.009	0.92	285 / 185	12.0 / 7.0	600	-100/500	Y	62
		7148	0.0135	1.35	400 / 300	15.0 / 15.0	350	-100/500	Y	104
		7208	0.020	1.52	375 / 355	17.0 / 15.0	240	-100/500	Y	140
		7278	0.0255	1.83	400 / 500	25.0 / 20.0	170	-100/500	Y	181
Mechanical Grade		7037	0.0025	0.20	70 / 75	3.0 / 2.0	600	-100/500	N	61.5
		7057	0.0045	0.38	150 / 150	6.25 / 6.25	500	-100/500	Y	62
		7107	0.008	0.79	200 / 170	10.5 / 7.5	380	-100/500	N	62
		7147	0.0119	1.15	265 / 180	8.0 / 5.0	400	-100/500	N	38
Economy Grade		7036	0.0025	0.17	90 / 75	2.5 / 2.0	925	-100/500	N	50
		7056	0.0038	0.34	155 / 125	6.25 / 6.25	500	-100/500	N	62
		7106	0.0078	0.68	230 / 145	12.0 / 7.0	300	-100/500	N	51.5
		10-69-128	0.0085	0.70	230 / 185	18.0 / 12.0	280	-100/500	N	44
		7146	0.011	0.95	220 / 150	20.0 / 10.0	245	-100/500	N	38
		7226	0.0225	1.33	455 / 370	100.0 / 100.0	135	-100/500	N	110
Tac-Black™		7356	0.034	2.1	650 / 650	50.0 / 60.0	100	-100/500	N	72
		7053	0.0047	0.44	180 / 150	5.0 / 4.5	230	-100/500	Y	38
		7063	0.0056	0.55	180 / 160	8.25 / 7.25	345	-100/500	Y	38
		7103	0.0095	0.92	335 / 210	14.0 / 7.0	225	-100/500	Y	38
		7143	0.0148	1.36	410 / 320	10.4 / 7.8	140	-100/500	Y	104
Crease & Tear Resistant		7054	0.0047	0.45	160 / 160	6.5 / 5.5	700	-100/500	Y	56
		7064	0.005	0.5	180 / 175	10.5 / 8.5	600	-100/500	N	40
		A924	0.01	0.94	300 / 165	15.0 / 10.0	300	-100/500	Y	56
		7274	0.0254	1.83	450 / 625	60.0 / 80.0	135	-100/500	Y	62
Pigmented PTFE w/ LSR		A1075	0.0095	0.79	155 / 145	3.5 / 3.0	-	-100/350	Y	38
Silicone Rubber Coated Fiberglass Fabric		7102W	0.0093	0.63	74 / -	-	-	-100/450	N	39
		7152	0.015	1.0	230 / -	-	-	-100/450	N	39
		7202R	0.0203	1.38	265 / -	-	-	-100/450	N	38
		7242	0.022	1.40	285 / -	-	-	-100/450	N	39
		7231R	0.023	1.51	350 / -	-	-	-100/450	N	37.5
		7322	0.0295	1.99	285 / -	-	-	-100/450	N	39
		7322R	0.03	1.99	285 / -	-	-	-100/450	N	39
		7422W	0.04	2.58	410 / -	-	-	-100/450	N	39
Anti-Static	Tac-Black™	7053AS	0.0043	0.44	155 / 150	6.25 / 6.25	-	-100/500	N	42
		7063AS	0.0055	0.55	150 / 150	6.25 / 6.25	-	-100/500	N	38
		7103AS	0.0095	0.90	280 / 210	8.5 / 8.0	-	-100/500	N	94
		7143AS	0.014	1.36	400 / 335	11.5 / 7.5	-	-100/500	N	104
	Kevlar® Black	7305KAS	0.035	0.60	450 / 350	-	-	-100/356	N	126
Porous		7025	0.0023	0.12	55 / 50	4.5 / 6.0	-	-100/500	Y	61.5
		7115	0.013	0.77	250 / 215	25.0 / 15.0	10	-100/500	Y	104
		7255	0.029	0.82	165 / 185	-	-	-100/500	Y	168
Open Mesh	Glass Tan	7195	0.019	0.95	200 / 190	-	-	-100/500	Y	72
	Glass Gold	7305K	0.035	0.62	450 / 350	-	-	-100/356	N	118
	Glass Black	7303	0.035	0.90	225 / 175	-	-	-100/500	Y	189
	Glass Brown	7308	0.035	0.90	225 / 175	-	-	-100/500	Y	189
	Glass Tan	A970	0.033	0.89	225 / 175	-	-	-100/500	Y	189
	Kevlar® Glass Brown	A1087	0.039	0.67	600 / -	-	-	-100/356	N	42
Kevlar® Glass Gold	7305KG	0.036	1.25	450 / 600	-	-	-100/356	N	118	

## Fabric Nomenclature: 7ABC

Part number description:

- '7'- Fabric
- 'AB'- Overall Thickness
- 'C' - Product Classification

Product Classification:

	Product Grade
9	Premium Grade
8	Standard Grade
7	Mechanical Grade
6	Economy Grade
5	Porous Bleeder & Filter
4	Crease & Tear Resistant
3	Tac-Black®
3-AS	Tac-Black® Anti-Static/Conductive
2	Silicone Coated
K	Kevlar®
KAS	Kevlar® Anti-Static/Conductive

## Example: 7039

- '7'- Fabric
- '03'- 3mil Thickness
- '9' - Premium Grade

The data herein are averages based on the authoritative testing of several lot numbers. This information is intended for comparison purposes only.

Kevlar® is a registered trademark of E.I. du Pont de Nemours and Company.

# Fabric Grades

## ▶ Premium

Featuring a heavy coating of PTFE that offers optimum release and durability, this grade is designed for extreme environments where superior release and extended life are critical.

- Reusable pan liners for cooking/baking
- Laminate separator sheets
- Tortilla and pizza crust belts
- Specialized heat sealing
- Applications where fabric weave impression is undesirable

## ▶ Standard

Used in the widest range of applications due to its combination of high performance and moderate price.

- Release sheets on heat sealing machines and laminate presses
- Nonstick surfaces for paints, adhesives and food products
- Gaskets, seals and bearings for chemicals, oils and gases
- Thermal insulation for high temperature and chemical resistant applications
- Covers for hot platens, chutes, hoppers and troughs

## ▶ Mechanical

With a medium coating of PTFE, this grade is preferred in applications where economy is more important than maximum resistance to chemicals and solvents and where increased surface texture is useful.

- Chemical resistant laboratory aprons
- Protective curtains for paint spraying and bottle washing, acid protection and food packaging

## ▶ Economy

Provides a light coating of PTFE for large volume applications that require cost-efficiency and high performance.

- Leaders for processing paper, plastics, metallic foils and cloth
- Separator sheets for processing uncured rubber
- Manufacturing of abrasive wheels

## ▶ Porous Bleeder & Filter Cloth

Promotes drying by allowing airflow through the fabric. Available with a wide range of porosity and allows outgassing of volatile products.

- Release cloth in vacuum molding
- Filtration
- Pollution abatement
- Strainers

## ▶ Open Mesh Fabric

Used for belts to allow outgassing of volatile products and promote drying since airflow can move through the belt. These belts are ideal for curing and bonding inks, pigments and powders to fabrics and non-woven materials.

# Fabric Grades

## ▶ Tac-Black™ & Tac-Black™ Anti-Static/Conductive Fabric

Tac-Black™ is a pigmented fabric for use in applications where a natural fabric is not suitable. Tac-Black™ Anti-Static (AS) is provided with carbon loading which offers semi-conductive and anti-static properties.

- Release sheets
- Conveyor belts for fusing machines to bond woven and non-woven fabrics

## ▶ Crease & Tear Resistant

Offers substantially higher tear strength and flexibility for high speed applications.

- High speed packaging belts
- Edge reinforcement for industrial belts in the packaging and plastics industries

## ▶ Silicone Rubber Coated Fiberglass Fabric

Outstanding dielectric properties, superior release and high abrasion and flex resistance make silicone rubber coated fabrics ideal for demanding environments.

- Electrical insulation tapes and gaskets
- Heater covers
- Safety curtains
- Conveyor belts for foam manufacturing, shrink tunnels and industrial processes
- Release and separator sheets for viscous processes in the chemical, rubber, plastic, electrical and aerospace industries

## ▶ Liquid Silicone Rubber (LSR) Fabric

A chemically inert fabric with excellent release properties that is available with liquid silicone rubber on both sides or with PTFE on one side and liquid silicone rubber on the other.

- Direct food contact applications
- Non-food contact applications

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