



Braided Packing

Braided Packing  
Extractors

## Product Description:

Braided packing, also called compression packing and rope packing, is a rope-like material cut into rings that wrap around the rod. When installed, the compression force generated by tightening the gland produces radial pressure. Since braided packing expands radially when compressed, the gland tolerances can be more flexible than when using vee packing.

Braided packing is usually produced in a square or rectangular cross-section and is available in a wide range of materials. Hi-Tech Seals distributes braided packing based on weight, measured in pounds.

## Part Numbers:

PKG	_____	_____	_____
	Nominal C/S	Style #	Weight: Blank – 1 lb 5LB – 5 lbs 10LB – 10 lbs

**Example:** PKG 375 530L 10LB – 3/8" C/S, Braided Packing style # 530L, 10lbs package.

Style #	Description	Temp. Rating (°C (°F))	pH Rating	Speed Rating (FPM)	Pressure Rating (PSI)
<b>100B</b> 	Braided from 100% PTFE filament and impregnated with a PTFE suspensoidal blocking agent. 100B offers a long service life, good chemical resistance, minimal water absorption, and an extremely low coefficient of friction. 100B is recommended for static conditions and is ideal for chemical processing applications.	260 (500)	0 - 14	N/A	2000 (static)
<b>100BL</b> 	Braided from 100% PTFE filament and impregnated with a PTFE suspensoidal blocking agent and break in lubricant. 100BL is ideal for high-speed rotary shaft services. This soft, yet dense and stable packing offers good chemical resistance and very low shaft friction. Can be used in reciprocating applications and various pump services.	260 (500)	0 - 14	1500	300
<b>100F</b> 	Manufactured from 100% PTFE yarn that complies with all FDA requirements. This packing is designed for use in the food and beverage, chemical, and pharmaceutical industries, or in critical applications where contamination is a concern.	260 (500)	0 - 14	1500	300
<b>100FL</b> 	Made from white hybrid PTFE yarn with a lubricant that complies with FDA requirements. 100FL offers extended service life and minimal shaft friction and scoring. High-speed PTFE packing for food service, pharmaceutical, pulp and paper, and chemical industries.	260 (500)	0 - 14	3000	300
<b>102B</b> 	Composed of PTFE filament and reinforced with aramid corners. This style is non-staining, non-contaminating and offers excellent abrasion resistance. 102B packing is a durable and resilient solution for abrasive slurry applications in centrifugal, rotary, reciprocating pumps, and valves.	260 (500)	2-12	2500	500
<b>130L</b> 	Composed of lubricated PTFE and graphite filaments with self-lubricating properties. 130L offers low friction, high heat dissipation, and good chemical resistance. Suited for most general service rotating equipment applications.	288 (550)	0 - 14	4000	300 - Pump 2000 - Valve

PTFE

Style #	Description	Temp. Rating (°C (°F))	pH Rating	Speed Rating (FPM)	Pressure Rating (PSI)
PTFE	<b>132L</b>  <p>Composed of PTFE and graphite filament yarn, encapsulated in a PTFE matrix; the matrix helps eliminate graphite migration, while the aramid reinforced corners increase abrasion resistance. Suited for valves, pumps, corrosive media, and abrasive environments.</p>	260 (500)	2 - 12	2500	500
	<b>210L</b>  <p>Composed from continuous aramid fibers thoroughly impregnated with PTFE and an inert lubricant. 210L packing provides high tensile strength and good abrasion resistance, while also offering excellent braid retention. This packing is nonstaining and non-contaminating with good dimensional stability and extrusion resistance. Ideal for various abrasive and slurry services where aggressive media is present.</p>	260 (500)	2 - 12	2500	500
Aramid Fiber	<b>210LS</b>  <p>Made with high-strength spun aramid yarn and thoroughly impregnated with a PTFE dispersion along with a proprietary inert lubricant, for a fast break-in. Its combination of softness and conformability makes it easy to cut and install while exhibiting strength in handling demanding abrasive applications. 210LS is non-staining and non-contaminating, offering exceptional durability and sealing performance.</p>	260 (500)	2-12	2500	500
	<b>221L</b>  <p>Manufactured from continuous Meta-aramid filament and impregnated with PTFE and an inert break in lubricant. 221L offers good heat dissipation and abrasion resistance. This packing is nonstaining, non-glazing, and non-contaminating. Suited for applications where low leakage and high durability packing is required, such as agitators, mixers, and stock pumps.</p>	260 (500)	1 - 12	2000	300
Graphite	<b>300</b>  <p>Manufactured from high purity graphite, 300 offers maximum sealability under gland pressure and is essentially leak free. 300 is a self-lubricating packing that offers low friction and good heat dissipation. Often used in high-temperature pump and valve applications.</p>	*455 (850) **649 (1200) ***3315 (6000)	0 - 14	4000	500 - Pump 3000 - Valve
	<b>307</b>  <p>Made from expanded flexible graphite yarn and reinforced with high-strength carbon filaments. 307 is easy to install, durable, self-lubricating, and offers low leakage with increased extrusion resistance. This material blend allows for low shaft wear while maintaining excellent heat dissipation. Suited for high-temperature and high-pressure pump and valve applications.</p>	*455 (850) **649 (1200) ***3315 (6000)	0 - 14	4000	500 - Pump 3000 - Valve

\*Air \*\*Steam \*\*\*Non-Oxidizing Atmosphere

Style #	Description	Temp. Rating (°C (°F))	pH Rating	Speed Rating (FPM)	Pressure Rating (PSI)
<b>310</b> 	Made from high purity graphite with a PTFE dispersion. 310 packing is easy to install, offers good extrusion resistance, and is self-lubricating. The material combination allows for low wear and good durability, while maintaining good heat dissipation. Suited for almost all pump and valve applications.	288 (550)	0 - 14	4000	500
<b>310L</b> 	Braided from high-quality graphite and PTFE filament yarn. A high-speed lubricant is added for quick break in and low friction during operation. 310L is easy to install, offers good extrusion, and chemical resistance. Suitable for valves, centrifugal pumps, high-speed rotary pumps, and reciprocating pumps.	288 (550)	0 - 14	4900	300
<b>312</b> 	Braided using a combination of graphite and PTFE fibre filament yarn and aramid reinforced corners. This packing offers extrusion and abrasion resistance that is ideal for an extensive range of abrasive and chemical services. 312 maintains good dimensional stability in various valve and pump applications.	260 (500)	2 - 12	2500	500
<b>330</b> 	Made from industrial grade graphite filament and coated with a graphite blend. 330 is an economical substitute for most carbon packings. It offers a low coefficient of friction and high thermal conductivity. Suited for application with aggressive media or high shaft speed. Ideal for valves, centrifugal pumps, rotary pumps, and reciprocating pumps.	*455 (850) **649 (1200) ***3315 (6000)	0 - 14	4000	500 - Pump 4000 - Valve
<b>330B</b> 	A high-performance graphite packing that is impregnated with a blocking agent. 330B has a low coefficient of friction and high thermal conductivity. In addition, it offers good chemical resistance and dimensional stability. This packing can withstand extreme pressure and temperatures in environments with aggressive media. Suitable for agitators, pumps, valves, filters, and more.	*455 (850) **649 (1200) ***3315 (6000)	0 - 14	4000	500 - Pump 2500 - Valve
<b>330N</b> 	Made from nuclear grade graphite filament and coated with a graphite blend. 330N is designed for nuclear applications, capable of withstanding extreme temperature and pressures while maintaining low friction. This style offers high thermal conductivity and fraying resistance when cut. Can be used in valves, centrifugal pumps, rotary pumps, and reciprocating pumps.	*455 (850) **649 (1200) ***3315 (6000)	0 - 14	4000	500 - Pump 4000 - Valve

\*Air \*\*Steam \*\*\*Non-Oxidizing Atmosphere

Style #	Description	Temp. Rating (°C (°F))	pH Rating	Speed Rating (FPM)	Pressure Rating (PSI)
377	Composed of high purity expanded flexible graphite reinforced with high strength carbon filament. This material combination allows for low wear while maintaining good heat dissipation. 377 is highly durable, self-lubricating, and offers superior extrusion resistance. Often used in high-temperature, high-speed, and high-pressure applications.	*455 (850) **649 (1200) ***3315 (6000)	0 - 14	4800	500 - Pump 5000 - Valve
3X0	Braided from 98% purity flexible graphite and Inconel® reinforced. Meets API 589/607 fire test standards. Offers reduced stem friction with high heat extrusion resistance.	*455 (850) **649 (1200) ***1093 (2000)	0 - 14	N/A	4500
3X0IE	Composed of an Inconel® jacketed, 98% purity flexible graphite. Meets API 589/607 fire test standards and far surpasses API 622 standard for emission requirements. 3X0IE is a certified low leakage and ultra-low fugitive emission packing. With unique corrosion inhibitors, self-lubricating, and non-scoring qualities, it is a great solution for high-temperature and high-pressure valve services and Leak Detection and Repair (LDAR) programs.	*455 (850) **649 (1200) ***1093 (2000)	0 - 14	N/A	6500
410	Composed of a 100% GFO™ fibre within a PTFE matrix to eliminate graphite migration. 410 offers a long service life with a low coefficient of friction. This packing has good water efficiency, thermal conductivity, and great chemical resistance. Suitable for mixers, agitators, valves, centrifugal pumps, rotary pumps, and reciprocating pumps.	288 (550)	0 - 14	4300	300 - Pump 2000 - Valve
510	Composed of acrylic blend that is impregnated with PTFE. 510 is a cost-effective, durable, general-purpose packing that possesses good chemical resistance and excellent dimensional stability. Designed to withstand a range of fluids in various temperatures, pressures, and speeds. Often used in centrifugal pumps, rotary pumps, and reciprocating pumps.	260 (500)	0 - 12	2200	500
510L	Composed of an acrylic blended fibre impregnated with PTFE and an inert lubricant for extremely low friction. 510L is durable, non-staining, and non-contaminating. This packing provides good chemical resistance and offers great heat dissipation. Designed to withstand a range of fluids in various temperatures, pressures, and speeds. Often used in valves, centrifugal pumps, rotary pumps, and reciprocating pumps.	260 (500)	0 - 12	2500	500

\*Air \*\*Steam \*\*\*Non-Oxidizing Atmosphere

Style #	Description	Temp. Rating (°C (°F))	pH Rating	Speed Rating (FPM)	Pressure Rating (PSI)
Acrylic	<b>512L</b>  <p>Made from acrylic blended fibre and reinforced with durable aramid corners. 512L is impregnated with PTFE and a lubricant. This packing offers a long service life and excellent abrasion resistance. Ideal for applications with abrasive slurry in valves and pumps.</p>	260 (500)	2 - 12	2200	500
	<b>530L</b>  <p>Made from acrylic fibre; this packing is impregnated with graphite flakes and high-temperature lubricants. 530L is a cost-effective packing with low wear. This packing handles a wide range of fluids at various pressures and speeds. Used as a general service packing in steam, water, oil, and other mild environments.</p>	260 (500)	4 - 10	1500	300
Phenolic/Fiberglass	<b>610L</b>  <p>610L is made from KYNOL™ filaments and is impregnated with PTFE and an inert break in lubricant. The phenolic fibres help reduce shaft wear and leakage. This packing is suitable for a range of purposes where durable packing is required.</p>	260 (500)	1 - 13	2000	500
Carbon	<b>700B</b>  <p>Composed of carbon yarn and impregnated with a blocking agent. 700B offers a good service life and the ability to maintain good heat dissipation. This packing has good chemical resistance, low shaft wear, and offers low abrasion. Ideal for pumps or valves in caustic or corrosive media and is suitable for almost any high-speed and high-temperature pump or valve application.</p>	315 (600)	0 - 14	3000	500 - Pump 3600 - Valve
	<b>713L</b>  <p>Fabricated using carbon filament impregnated with PTFE and graphite, it is excellent for demanding applications. The unique material combination offers high abrasion resistance, low friction, outstanding heat dissipation, and great performance at high speeds. The self-lubricating properties and other characteristics reduce shaft wear, water consumption, and lower maintenance.</p>	*455 (850) **649 (1200)	0-14	4000	300 - Pump 4500 - Valve
	<b>730B</b>  <p>Composed of carbon yarn and impregnated with a blocking agent and high-purity graphite. 730B offers low shaft wear, low leakage, excellent heat dissipation, and good chemical resistance. Often used in caustic or corrosive environments and is suitable for almost any high-speed and high-temperature pump or valve application.</p>	*455 (850) **649 (1200) ***3315 (6000)	0 - 14	4000	500 - Pump 4350 - Valve

\*Air \*\*Steam \*\*\*Non-Oxidizing Atmosphere

	Style #	Description	Temp. Rating (°C (°F))	pH Rating	Speed Rating (FPM)	Pressure Rating (PSI)
Vegetable Fiber	800L	Braided from a long-lasting blend of flax and ramie fibres and thoroughly lubricated with a blend of tallow and wax. 800L packing provides an economical low friction solution for water pumps, stern tubes, and rudder posts. This packing offers good resistance to cold water, seawater, and cold oils. Often used in pulp and paper, marine, and wastewater markets.	104 (220)	5 - 9	1200	150
	810L	Composed of high-quality flax and ramie yarns which offer corrosion resistance, good braid retention, and long service life. 810L is impregnated with PTFE and an inert lubricant. Suited for most saltwater and freshwater applications.	121 (250)	5 - 9	1200	200
	830L	Braided from a blend of flax and ramie fibres, this packing is further enhanced with a tallow and wax blend lubricant and then coated with a high purity graphite to further reduce friction. 830L is resistant to cold water, seawater, and cold oils. Used in water pumps, rudder posts, marine applications, pulp and paper, and wastewater markets.	104 (220)	5 - 9	1200	150
Metallic	9A0L	Manufactured from aluminum alloy and lubricated with high viscosity light oil and high purity flake graphite. This packing is designed for services that require low friction and high-strength packing. Typically used in boiler feed pumps, heat transfer pumps, and oil charge pumps.	537 (1000)	4 - 10	2000	1000
	9A6L	High quality packing that is composed of aluminum alloy over a soft, high-temperature fiberglass core. 9A6L is lubricated with an oil and flake graphite blend for low friction. 9A6L is a high-strength, compressible packing that is available in coil form only. Often used in applications such as boiler pumps, heat transfer pumps, and oil charge pumps.	537 (1000)	4 - 10	2000	1000
	9C0	Made from soft annealed copper. This packing is dense yet flexible, which allows for easy installation. 9C0 is designed for use as an anti-extrusion ring.	816 (1500)	4 - 10	1000	1000

Style #		Description	Temp. Rating (°C (°F))	pH Rating	Speed Rating (FPM)	Pressure Rating (PSI)
Metallic	<b>9X6I</b> 	9X6I is composed of Inconel® wire inserted fibreglass wrapped over a core. The packing is further enhanced with corrosion inhibitors and a graphite blend coating. 9X6I is an economical solution compared to other more expensive steam packings. Used as a high-temperature and high-pressure valve stem or expansion joint packing.	649 (1200)	2 - 13	N/A	3000
	<b>9L0L</b> 	Composed of an anti-friction lead alloy and impregnated with low friction lubricant, which reduces shaft wear and increases heat dissipation. 9L0L is great for high-pressure applications and for use as end rings or anti-extrusion rings. These qualities make it well suited for high-pressure boiler feeders, reciprocating pumps, and rotating pumps.	232 (450)	4 - 10	3600	1000
	<b>9L6L</b> 	Composed from anti-friction lead alloy over a fibreglass core. The packing is impregnated with a low friction lubricant to help reduce shaft wear and increase heat dissipation. 9L6L is great for high-pressure applications and for use as end rings or anti-extrusion rings. These qualities make it well suited for high-pressure boiler feeders, reciprocating pumps, and rotating pumps.	232 (450)	4 - 10	3600	1000

# Cross Reference Chart

Imperial Seals

Braided Packing

Hi-Tech Seals	American Braiding	Chemstar	A.W. Chesterton	John Crane	Garlock	SEPCO	Teadit	UTEX
<b>100B</b>	344	154	324/1724	C1045	5888/PM7	ML2254	2005	232
<b>100BL</b>	344BIL	154S	328/1728	C1050	5889/PM8	ML2235	2006	231
<b>100F</b>	344FDA	154FDA	1725	C1057	5904	ML2236	2006FDA	245
<b>100FL</b>	360	155	1765	-	-	ML2240	2020	-
<b>102B</b>	344K	154K	-	C1061	-	-	2003	-
<b>130L</b>	8200BIL	165LA	1750	C1065	PM6	ML3600	2007	244
<b>132L</b>	8100BIL-K	-	1740	C1064	PM6K	ML8004	2017	214
<b>210L</b>	300	170	1740	K1730	5200/PM5	ML4800	2004	212/213
<b>210LS</b>	300SA	182	-	K1760	8904/PM4	ML6225	2044	222
<b>221L</b>	310	2000	1730	K1771	1812	ML4700	2030	-
<b>300</b>	5000	1100TCP	1400	1656G/G58	1300	ML2001/ ML911	2000	686
<b>307</b>	5000CC	-	1400R	G58	1333G	-	-	-
<b>310</b>	5000T	-	-	-	-	GRAPHA- LUBE	-	688
<b>310L</b>	8100BIL	3165	1760	C1070	PM6	ML8002	2007	210
<b>312</b>	8000T-K	165-K	-	-	5100K	ML4004	-	-
<b>330</b>	8000LC	160	1-2	1635G/1626	G700	ML4444	2001	-
<b>330B</b>	8000G	-	375	1625G	G200	ML4500	-	229
<b>330N</b>	8000	-	-	-	G700	ML4444	-	-
<b>377</b>	5000-OCC	1100CR	GraphMax	G57	1306	ML2001CC	2202	687
<b>3X0</b>	5000I	1100I	-	-	1399	ML2001W	2001IC	689
<b>3X0IE</b>	5000IJ	-	1601/1622	G58I	1303FEP	622	2235/2236	691
<b>410</b>	8000T	165	-	-	5100	ML4002	-	-
<b>510</b>	3000N	-	-	1330	8922NL/PM1NL	ML2250	2018	238
<b>510L</b>	3000T	1152	412-W/1774	1335	8922/PM1	ML2225	2019	237
<b>512L</b>	3000T-K	1152K	-	C1061	8921K	ML2225A	-	241
<b>530L</b>	3000G	1398/1430	1315	1340	8913/PM2	ML402	2255	236
<b>610L</b>	320	1190	1727	-	1850	ML2400	2774/2777	248
<b>700B</b>	4000	50	1738	1655C	5000/105	ML4461	2103T	228
<b>713L</b>	8500	-	1830SSP	-	-	ML560	-	-
<b>730B</b>	4000G	90	370/477-1	1627/1650C	98/108	ML4460	2002	226
<b>800L</b>	921	528	80	863	18	2	2138	200
<b>810L</b>	345	525T	329	867	5413	219	2421	201
<b>830L</b>	921G	531	81	866	90	2GR	2177	204
<b>9A0L</b>	8013	-	-	124	634	-	-	632
<b>9A6L</b>	8011	-	666	100AL	633	184	-	631
<b>9C0</b>	895	49	420	550	344	-	-	-
<b>9X6I</b>	3030INA	1414	1800	287-I/387-I	127AFP	ML310	2214	683
<b>9L0L</b>	8012	-	-	100M	632	-	-	610
<b>9L6L</b>	8010	-	555	110G	631	180	-	616

# Number of Feet per Pound of Packing

Hi-Tech Seals Style	American Braiding Style	Size									
		1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
100B	344	79	39	25	16	11.6	6.7	4.4	3.3	2.3	1.91
100BL	344BIL	68	41	22	14.5	10.6	5.9	3.7	2.6	1.9	1.5
100F	344FDA	82	47	22	15.2	10.9	5.7	4	2.9	2.2	1.6
100FL	360	72	31.5	17.4	12.5	8.9	4.7	3.3	2.3	1.7	1.2
102B	344K	89	43.5	25.5	16.5	11.9	6.7	4.4	3.2	2.2	1.8
130L	8200BIL	82	42	23	15.6	11.7	6.3	4.1	2.9	2.1	1.75
132L	8100BIL-K	-	-	23	14.5	10.1	5.7	3.8	2.6	2.2	1.57
210L	300	99	48	26	17	12.2	6.6	4.4	3.1	2.1	1.7
210LS	300SA	81	37	24	14.4	10.2	5.6	3.7	2.9	2.3	1.58
221L	310	90	40	21	15.9	11.9	6.7	4.3	3.3	2.3	1.81
300	5000	106	51	33	19	14.1	9.1	5.6	4.3	3.2	2.3
307	5000CC	106	51	33	19	14.1	9.1	5.6	4.3	3.2	2.3
310	5000T	77	41	25	16.6	12.6	7	4.4	2.8	2.4	1.8
310L	8100BIL	81	39	20	12.2	8.9	5.2	3.3	2.3	1.75	1.4
312	8000T-K	-	-	23	15	10.4	5.8	3.9	2.7	2.1	1.57
330	8000LC	135	67	35	24	14.8	9	6	3.9	3	2.3
330B	8000G	120	60	30	19.2	13.7	8.3	5.3	3.3	2.5	2
330N	8000	135	67	35	24	14.8	9	6	3.9	3	2.3
377	5000-OCC	-	-	29	19.3	13.9	7.6	5.1	3.5	2.6	2
3X0	5000I	106	51	33	19	14.1	9.1	5.6	4.3	3.2	2.3
3X0IE	5000IJ	82.7	36.8	20.7	13.1	9.2	5.5	3.7	2.7	2	1.5
410	8000T	65	42	20	14.3	10	5.6	3.8	2.6	2.1	1.56
510	3000N	107	48	28	18.4	13.2	7.4	4.9	3.6	2.6	2.1
510L	3000T	97	43	25	16.5	11.8	6.6	4.4	3.1	2.3	1.85
512L	3000T-K	-	-	26	18	13	6.6	4.7	3.3	2.5	1.8
530L	3000G	105	60	38	25	17.5	8.6	5.9	4.2	3.3	2.3
610L	320	130	57	27	16.4	12.8	7.6	4.9	3.4	2.5	2.2
700B	4000	89	42	22	15.3	10.6	6.2	4.1	2.9	1.98	1.4
713L	8500	100	45	25	16.2	11.3	6.5	4.2	3.0	2.2	1.7
730B	4000G	102	49	28	19.5	13.4	7.8	5.1	3.5	2.6	2.1
800L	921	100	54	28	20	14.1	8.6	5.8	3.9	2.9	2.3
810L	345	71	39	23	16.8	12.6	7.1	5	3.7	2.8	2.2
830L	921G	100	54	28	20	14.1	8.6	5.8	3.9	2.9	2.3
9A0L	8013	119	53	29	19	13.1	7.4	4.7	3.3	2.4	-
9A6L	8011	100	45	25	16.2	11.2	6.3	5.2	3.6	2.7	-
9C0	895	29	15.5	7.4	5.1	3.7	1.98	1.3	0.82	0.64	0.46
9X6I	3030INA	92	43	25	17.9	12.7	6.8	4.7	3.2	2.4	1.85
9L0L	8012	19.8	8.8	4.9	3.2	2.2	1.24	0.89	0.62	0.47	-
9L6L	8010	26	11.6	6.5	4.2	2.9	1.63	1.29	0.9	0.68	-

Yields are subject to deviation due to industry accepted tolerance and density variations.