Tackle Box Line Tests © The Tackle Box 2013

Make of Line	Stated Strain	Average Strain	Stated Diameter	Measured Diameter
NYLON				
Berkley Big Game Green	10lb	13.88lb	0.31mm	0.30mm
	12lb	15.75lb	0.36mm	0.34mm
	15lb	20.75lb	0.38mm	0.38mm
Daiwa Sensor Brown	4lb	5.88lb	0.205mm	0.20mm
	6lb	8.5lb	0.235mm	0.22mm
	8lb	10.75lb	0.26mm	0.25mm
	10lb	14.63lb	0.31mm	0.30mm
	12lb	16.5lb	0.33mm	0.32mm
	15lb	17.63lb	0.37mm	0.36mm
	18lb	21.63lb	0.405mm	0.40mm
	20lb	25lb	0.435mm	0.43mm
	25lb	31lb	0.520mm	0.51mm
	30lb	32.13lb	0.570mm	0.57mm
Daiwa Sensor Clear	8lb	10.12lb	0.26mm	0.25mm
	10lb	15.87lb	0.31mm	0.30mm
	12lb	16.75lb	0.33mm	0.32mm
	15lb	21.37lb	0.37mm	0.35mm
	18lb	24.25lb	0.405mm	0.40mm
E•S•P Crystal Carp Mono	10lb	11.13lb	0.30mm	0.31mm
	12lb	13.38lb	0.325mm	0.32mm
	15lb	15lb	0.35mm	0.36mm
	18lb	17.63lb	0.375mm	0.375mm
E•S•P Olive Carp Mono	10lb	11.0lb	0.30mm	0.28mm
	12lb	12.63lb	0.325mm	0.30mm
	15lb	14.13lb	0.35mm	0.32mm
	18lb	16.5lb	0.375mm	0.35mm
E•S•P Syncro XT	10lb	14lb	0.30mm	0.29mm
	12lb	15.75lb	0.33mm	0.31mm
	15lb	21.75lb	0.37mm	0.35mm
	18lb	21.63lb	0.40mm	0.39mm
Fox Exocet Green	13lb	14.67lb	0.309mm	0.29mm
	16lb	14.22lb	0.331mm	0.32mm
	18lb	16.36lb	0.35mm	0.33mm
Fox Soft Steel Camo	10lb	13.5lb	0.286mm	0.28mm
	12lb	13.63lb	0.309mm	0.31mm
	15lb	15lb	0.331mm	0.33mm
Gardner GR60	12lb	18.75lb	0.35mm	0.35mm
	15lb	24lb	0.40mm	0.40mm
Gardner GR60X Clear	12lb	15.88lb	0.35mm	0.34mm
	15lb	17.5lb	0.40mm	0.38mm
Gardner GR60X Green	12lb	16lb	0.35mm	0.32mm
	15lb	18.88lb	0.40mm	0.39mm
Gold Label Pro Clear	10lb	12.13lb	0.26mm	0.26mm
	12lb	14.5lb	0.29mm	0.29mm
	16lb	19.75lb	0.34mm	0.34mm
	20lb	24.75lb	0.40mm	0.38mm
Gold Label Pro Gold	8lb	11.38lb	0.28mm	0.27mm
	10lb	11.88lb	0.305mm	0.29mm
	12lb	17.5lb	0.355mm	0.35mm
	15lb	22lb	0.38mm	0.38mm
Gold Label Pro Distance	10lb	15.13lb	0.30mm	0.29mm
	12lb	18.75lb	0.35mm	0.34mm
	15lb	17.63lb	0.38mm	0.38mm
Korda Adrena-Line	10lb	11.75lb	0.30mm	0.30mm
	12lb	13.25lb	0.33mm	0.33mm
	15lb	15.63lb	0.35mm	0.36mm
	18lb	17.63lb	0.38mm	0.39mm
Korda Kruiser Control	6lb	9.38lb	0.25mm	0.24mm
	8lb	11.75lb	0.28mm	0.28mm
	10lb	11.25lb	0.30mm	0.29mm
	12lb	16.25lb	0.33mm	0.33mm
Korda Subline Brown	10lb	13.5lb	0.30mm	0.30mm
	12lb	17.13lb	0.35mm	0.36mm
	15lb	19.25lb	0.40mm	0.40mm
	20lb	22.00lb	0.43mm	0.43mm
Korda Subline Green	10lb	12.88lb	0.30mm	0.29mm
	12lb	17.88lb	0.35mm	0.35mm
	15lb	18.88lb	0.40mm	0.39mm
	20lb	22.38lb	0.43mm	0.42mm
Krystonite	8lb	8.62lb	0.25mm	0.24mm
	10lb	13.62lb	0.29mm	0.28mm
	12lb	13.75lb	0.31mm	0.30mm
	15lb	16.12lb	0.36mm	0.35mm
	18lb	22.5lb	0.41mm	0.40mm
Nash NXT D-Cam Mono	12lb	18.38lb	0.35mm	0.34mm
	15lb	21.25lb	0.38mm	0.39mm
	18lb	24.88lb	0.43mm	0.43mm
Shimano Catana	8lb	14.13lb	0.28mm	0.28mm
	10lb	16lb	0.30mm	0.30mm
	12lb	18.88lb	0.33mm	0.33mm
	15lb	20.5lb	0.35mm	0.35mm
Shimano Tribal Carp	10lb	13.41lb	0.305mm	0.26mm
	12lb	15.72lb	0.33mm	0.32mm
	15lb	19.52lb	0.38mm	0.39mm
TF Gear Nan-Tec Mono Red Mist	12lb	12lb	0.30mm	0.27mm
	15lb	16.62lb	0.35mm	0.34mm

Make of Line	Stated Strain	Average Strain	Stated Diameter	Measured Diameter
NYLON				
Ultima Power Carp Clear	10lb	14.38lb	0.28mm	0.29mm
	12lb	17.50lb	0.31mm	0.31mm
	14lb	19.63lb	0.33mm	0.34mm
	16lb	22lb	0.36mm	0.38mm
	18lb	27.25lb	0.38mm	0.42mm
Ultima Power Carp Ultra	12lb	14.38lb	0.31mm	0.31mm
	14lb	9lb	0.33mm	0.33mm
	16lb	10.88lb	0.36mm	0.38mm
	18lb	13.63lb	0.38mm	???????
Ultima Power Carp XR	12lb	14.38lb	0.31mm	0.32mm
	14lb	17.13lb	0.34mm	0.35mm
	16lb	17.0lb	0.36mm	0.37mm
	18lb	17.63lb	0.38mm	0.40mm
FLUOROCARBON				
Berkley Super Strong 100% Fluorocarbon	12lb	13lb	0.33mm	0.33mm
	15lb	14.5lb	0.381mm	0.365mm
	17lb	14.88lb	Unstated	0.38mm
Daiwa Floorit Brown	10lb	9.26lb	0.27mm	0.26mm
	12lb	10.55lb	0.31mm	0.28mm
	14lb	14.13lb	0.33mm	0.34mm
	17lb	16.08lb	0.37mm	0.38mm
Daiwa Floorit Clear	12lb	11.09lb	0.31mm	0.28mm
	14lb	13.14lb	0.33mm	0.34mm
	17lb	16.08lb	0.37mm	0.38mm
Fox Illusion® XS	12lb	7.88lb	0.30mm	0.27mm
	15lb	10.25lb	0.35mm	0.34mm
	18lb	13.5lb	0.37mm	0.36mm
Gardner Mirage	12lb	11.75lb	0.33mm	0.33mm
	14lb	12.88lb	0.35mm	0.35mm
	16lb	13.38lb	0.37mm	0.36mm
Korda Kontour	12lb	11.5lb	0.33mm	0.31mm
TF Gear Secret Trap	17lb	13.38lb	0.35mm	0.35mm
Ultima Pure Power Fluorocarbon Clear	12lb	9.38lb	0.30mm	0.30mm
	14lb	10.75lb	0.32mm	0.32mm
	16lb	11.5lb	0.35mm	0.35mm
Ultima Pure Power Fluorocarbon Green	12lb	8.25lb	0.30mm	0.30mm
	14lb	10.5lb	0.32mm	0.32mm
	16lb	13.0lb	0.35mm	0.35mm
X Line	12lb	9.38lb	0.26mm	0.28mm
	15lb	10.25lb	0.31mm	0.29mm
	17lb	11.13lb	0.33mm	0.31mm
	20lb	12.63lb	0.37mm	0.35mm
X2 Secure	15lb	13.82lb	0.30mm	0.31mm
	20lb	15.14lb	0.35mm	0.34mm
BRAID				
Berkley Fireline Braid	14lb	21.38lb	0.23mm	0.28mm
	20lb	26.38lb	0.30mm	0.34mm
	30lb	38.13lb	0.36mm	0.43mm
Berkley Fireline Tournament Exceed	14lb	21lb	0.23mm	0.26mm
	20lb	24.88lb	0.30mm	0.33mm
	30lb	38.13lb	0.36mm	0.43mm
Berkley Nanofil	12.64kg (28lb)	12lb	0.20mm	0.23mm
Berkley Whiplash Braid	20lb	15.88lb	0.06mm	0.20mm
	30lb	17.63lb	0.10mm	0.26mm
Daiwa Tournament 8 Braid	50lb	26lb	0.26mm	0.26mm
Dynon SK Braid	22lb	19.88lb	Unstated	0.30mm
	34lb	27.25lb	Unstated	0.39mm
E•S•P Spod & Marker Braid	20lb	18.88lb	0.28mm	0.28mm
Fox Exocet Distance Spod & Marker Braid	23lb	13.5lb	0.18mm	0.24mm
Fox Gravitron Pro	15lb	13.88lb	0.30mm	0.31mm
	20lb	18.13lb	0.35mm	0.37mm
	25lb	21.37lb	0.40mm	0.38mm
Nash Bullet Braid	15lb	19.5lb	0.30mm	0.32mm
	20lb	20.63lb	0.35mm	0.34mm
	25lb	22.63lb	0.40mm	0.34mm
Nash NXT Bullet Braid	15lb	18.13lb	0.23mm	0.30mm
	20lb	23.63lb	0.30mm	0.35mm
	25lb	26.63lb	0.34mm	0.38mm
Spiderwire Ultracast Fluoro Braid	20lb	19lb	0.25mm	0.27mm
	30lb	23.63lb	0.30mm	0.31mm
TF Gear Banana Braid	30lb	24lb	0.28mm	0.24mm
Ultima Vertibraid	20lb	20.0lb	Unstated	0.25mm
	30lb	27.75lb	Unstated	0.34mm
X2 Durabraid	31.5lb (14.3kg)	21lb	0.20mm	0.24mm
	37lb (16.8kg)	24lb	0.25mm	0.32mm
	42lb (19.3kg)	27lb	0.30mm	0.35mm

What will your line actually break at?

Almost every line commonly used for carp fishing has an under-rated breaking strain indicated on the spool or box. With a good knot, most lines will always break at a higher strain.

With no international guidelines for indicating breaking strain or diameter, manufacturers under-rate lines to different degrees. A line labelled 12lb by one company may consistently break around 20lb; a line labelled 12lb by a different company may regularly break at just 14lb.

To give a better idea of the specifications of lines we sell, we have tested breaking strains and diameters ourselves.

How we measure the breaking strain

We take line from different points on the spool and measure breaking strains five times using a Salter tension and compression tester, and diameters using a high quality digital caliper. Breakage tests are conducted with five turn grinner knots and a knotless knot to mimic what the average angler uses. The grinner knot is tied to a swivel and the knotless knot to a hook eye.

Braid diameters shown to the left are as accurate as possible, but unlike nylon lines some braids do not have round profiles. Each spool of line was tested brand new, but we accept that performance of all lines varies with age and different batches of lines supplied to shops may show slight differences in performance. However we hope the chart will provide useful general guidance.

Please note that this online chart includes some lines that are no longer manufactured. We have included them as the information may be useful.

Last updated 19/09/2013.