

Blade	Line	Speed	Control	Accuracy	Hardness	Flex	Handle	Top Layer	Fibre	Layers	Thickness
Vyzaryz Freeze	Premium						FL / ST	Limba	ARY-c	5+2 outer	5,8 mm
Vyzaryz Freeze HRD	Premium						FL / ST	Koto	ARY-c	5+2 outer	5,7 mm
Vyzaryz Trinity	Premium						FL / ST	Limba	X3	5+2 outer	5,8 mm
ZOH Hyper ARY-c 90	Premium						FL / ST	Koto	Hyper ARY-c	5+2 outer	5,7 mm
ZOH Hyper ARY-c 45	Premium						FL / ST	Limba	Hyper ARY-c	5+2 outer	5,7 mm
Nobilis PBO-c	Premium						FL / ST	Hinoki	PBO-c	3+2	7,1 mm
ZeLeBRO PBO-c	Premium						FL / ST	Limba	PBO-c	5+2 outer	5,7 mm
Santoru 3K-c	Professional						FL / ST	Hinoki	3K-c	3+2	6,3 mm
Santoru KL-c Inner	Professional						FL / ST	Hinoki	KL-c	5+2 inner	5,9 mm
Santoru KL-c Outer	Professional						FL / ST	Limba	KL-c	5+2 inner	5,9 mm
XYLO 5	Professional						FL / ST	Hinoki	-	5	7 mm
XYLO 7	Professional						FL / ST	Limba	-	7	6,4 mm
Roskopf Emotion	Professional						FL / ST / ANA / PEN	Hinoki	3K-c	5+2 inner	6,3 mm
Tezzo Paladin	Performance						FL / ST / PEN	Limba	3K-sc	5+2 inner	5,8 mm
Tezzo Guardian	Performance						FL / ST / PEN	Limba	-	7	6,8 mm
Tezzo Warrior	Performance						FL / ST / PEN	Limba	KL-c	5+2 inner	6 mm
Tezzo Spartan	Performance						FL / ST / PEN	Limba	KL-c	5+2 outer	5,8 mm
Roskopf Allround	Performance						FL / ST / ANA	Limba	-	7	6,1 mm
Rossi Junior	Performance						FL	Limba	-	7	6,1 mm
Challenger Junior	Progressive						FL	Poplar	-	5	6 mm
Challenger ALL	Progressive						FL / ST	Poplar	-	5	6 mm
Challenger OFF	Progressive						FL / ST	Limba	-	5	6,1 mm
Challenger Carbon	Progressive						FL / ST	Koto	3K-c	5+2 inner	5,8 mm
CWX	Precision						FL / ST	Limba	-	7	5,9 mm
CWX Defender	Precision						ST	Limba	-	5	7,5 mm

LIMBA
A limba top layer provides a soft feel with a higher trajectory on your shots. Perfect for topspin play.

KOTO
A koto top layer provides a firmer and crisper feel on your shots, which is perfect for direct and powerful play.

HINOKI
Hinoki's softer feel gives a one-of-a-kind touch that increases dwell-time for spin and control. All while also giving a catapult effect on the bounce.

ARY-c
The resulting fiber produces a large sweet spot, enabling the player to execute exceptionally fast shots with great precision. When combined with JOOLA's innovative cold-curing technology, in which it's pressed for long periods of time at low temperatures, the ARY-c provides a higher trajectory and a softer touch.

HYPER ARY-c
HYPER ARY-c fibers are enormously powerful and give the player unprecedented, crystal clear ball feedback. At the moment the ball hits the court, there is an optimal transfer of energy in the form of extreme rotation and speed values. At the same time, the typical ARY-c, catapult and sensitive touch is preserved. The reduction of vibration to a minimum enables a very stable and precise offensive game.

PBO-c
PBO is a synthetic polymer used in race cars and aeronautics for its durability and high-elasticity. It is used in PBO-c to complement the hard Carbon, creating a larger sweet spot and a softer stroke feeling.

3K-sc
A softer variant of the JOOLA 3K-c Carbon fiber, the 3K-sc offers more vibration feel in shot feedback and a higher level of blade flex. This helps create a greater spring effect in blades whilst maintaining a softer Carbon feeling.

3K-c
Every strand of fiber in this 3K-c weave is made up of 3,000 individual Carbon filaments. The 3K-c significantly reduces vibrations to create an enlarged sweet spot and produce a flat ball trajectory. Truly an offensive weapon in all aspects, this fiber's most notable characteristic is its hard, direct touch.

KL-c
Best known for its use in bulletproof body armor, lightweight KL-c softens up the hard touch of Carbon to create a medium-hard stroke. Capable of sensitive topspin play, this favored KL-c composite material has the ideal balance of speed, spin, and feel.

X3
The ground-breaking JOOLA X3 fuses the PBO-c and ARY-c into a new super-composite directional weave. Horizontal threads of PBO-c create a uniquely consistent playing feel and touch while vertical threads of ARY-c extend through the handle to provide stability throughout.