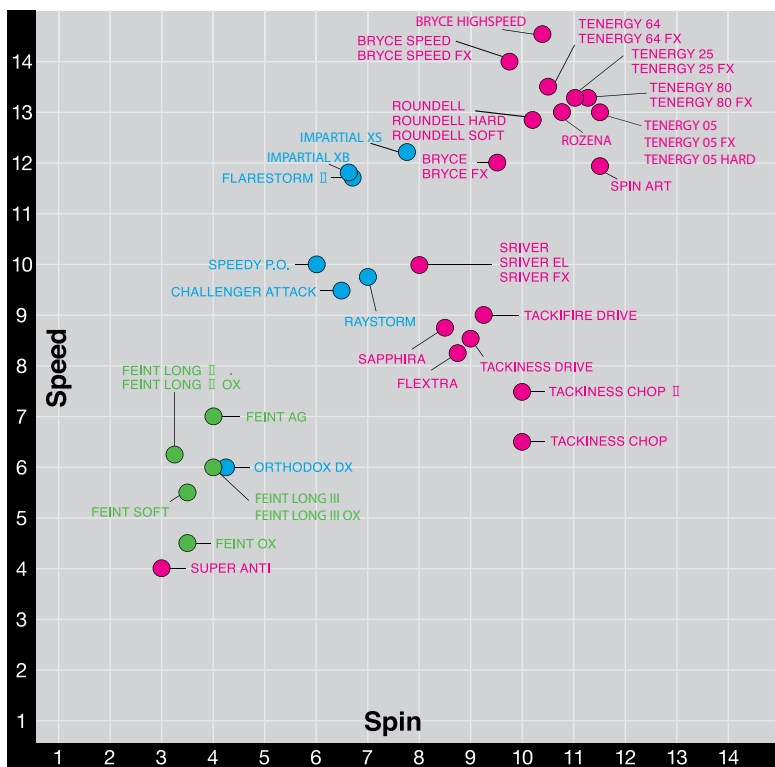


## Rubber Matrix



## Isotype for Butterfly Rubber

### Sponge

<b>MAX</b> THICKNESS	3.8–4.0mm (Including Rubber Sheet)	<b>2.1</b> THICKNESS	1.9–2.2mm
<b>1.9</b> THICKNESS	1.7–1.9mm	<b>1.7</b> THICKNESS	1.5–1.7mm
<b>1.3</b> THICKNESS	1.1–1.3mm	<b>1.1</b> THICKNESS	0.8–1.1mm
		<b>0.5</b> THICKNESS	0.4–0.7mm

### Speed

**10** SPEED The measure for speed of SRIVER is 10.

### Spin

**10** SPIN The measure of spin for TACKINESS CHOP is 10.

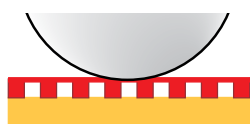
### Hardness

**38** HARDNESS It refers to the sponge; the higher the number, the harder the sponge.

- The numbers are based on the research conducted by the Butterfly Research and Development Department in January, 2017.

## Rubber Categories

### Pimples-in Rubber



#### ● Pimples-in Rubber

A rubber with a large contact area for the ball, which makes it easy to impart spin; there are two types, highly elastic with high reaction and moderate for control.

#### ● High Tension Pimples-in Rubber

A rubber with very high elasticity and friction; it is created by impacting tension into the rubber molecule.

#### ● High Friction Pimples-in Rubber

A rubber which imparts spin on the ball with ease as a result of the tackiness of the surface.

#### ● High Friction High Tension Pimples-in Rubber

A rubber with very high elasticity and friction created by impacting tension into the rubber molecule as well as enabling spin to be imparted on the ball owing to the tackiness of the surface.

### Pimples-out Rubber



#### ● Pimples-out Rubber

A rubber with a small contact area on the ball, which means it is less affected by the opponent's spin as the ball does not stay on the rubber for long.

#### ● High Tension Pimples-out Rubber

A pimples-out rubber with very high elasticity created by impacting tension into the rubber molecule.



#### ● Pimples-out Rubber (without Sponge)

A rubber without sponge; it is light weight and has low elasticity.

### Long Pimples Rubber



#### ● Long Pimples Rubber

A long pimples rubber with unexpected variety of rotations as the pimples easily transform on contact.

#### ● High Tension Long Pimples Rubber

A long pimples rubber which combines variation and elasticity; created by impacting tension into the rubber molecule.



#### ● Long Pimples Rubber (without Sponge)

A long pimples rubber without sponge; it is light weight and has low elasticity.

### Anti-Spin Rubber



#### ● Anti-Spin Rubber

A rubber with less friction; it is less affected by the amount of spin applied by the opponent.

# BUTTERFLY RUBBER | SPECIFICATION CHART

RUBBER	SURFACE	CATEGORY	SPEED	SPIN	HARDNESS	SPONGE THICKNESS (MM)
Bryce	Inverted	High Tension Pimples-in Rubber	12.00	9.50	35	1.9, 2.1
Bryce FX	Inverted	High Tension Pimples-in Rubber	12.00	9.50	33	2.1
Bryce High Speed	Inverted	High Tension Pimples-in Rubber	14.50	10.30	35	1.9, 2.1
Bryce Speed	Inverted	High Tension Pimples-in Rubber	14.00	9.75	38	2.1
Bryce Speed FX	Inverted	High Tension Pimples-in Rubber	14.00	9.75	32	2.1
Challenger Attack	Pips-Out	Pimples-out Rubber	9.50	6.50	35	1.5, 1.9, 2.1
Feint AG	Pips-Out	High Tension Long Pimpled Rubber	7.00	4.00	28	1.3, 1.7
Feint Long II	Pips-Out	Long Pimpled Rubber	6.25	3.25	38	0.5, 1.1, 1.3
Feint Long II OX	Pips-Out	Long Pimpled Rubber (without Sponge)	6.25	3.25	n/a	OX
Feint Long III	Pips-Out	Long Pimpled Rubber	6.00	4.00	25	0.5, 1.1, 1.3
Feint OX	Pips-Out	Long Pimpled Rubber (without Sponge)	4.50	3.50	n/a	OX
Feint Soft	Pips-Out	Long Pimpled Rubber	5.50	3.50	25	1.5
Flarestorm II	Pips-Out	High Tension Pimples-out Rubber	11.70	6.70	32	1.9, 2.1
Flextra	Inverted	Pimples-in Rubber	8.25	8.75	32	1.9
Impartial XB	Pips-Out	High Tension Pimples-out Rubber	11.90	6.70	30	1.7, 1.9, 2.1, MAX
Impartial XS	Pips-Out	High Tension Pimples-out Rubber	12.20	7.90	30	1.7, 1.9, 2.1, MAX
Orthodox DX	Pips-Out	Pimples-out Rubber (without Sponge)	6.00	4.25	n/a	OX
Raystorm	Pips-Out	High Tension Pimples-out Rubber	9.75	7.00	34	1.9, 2.1
Roundell	Inverted	High Tension Pimples-in Rubber	12.80	10.20	35	1.9, 2.1
Roundell Hard	Inverted	High Tension Pimples-in Rubber	12.80	10.20	40	2.1
Roundell Soft	Inverted	High Tension Pimples-in Rubber	12.80	10.20	32	2.1
Rozena	Inverted	High Tension Pimples-In Rubber	13.00	10.80	35	1.7, 1.9, 2.1
Sapphira	Inverted	Pimples-in Rubber	8.75	8.50	35	1.9
Speedy PO	Pips-Out	Pimples-out Rubber	10.00	6.00	35	1.9
Spin Art	Inverted	High Friction High Tension Pimples-in Rubber	11.90	11.50	48	1.9, 2.1
Sriver	Inverted	Pimples-in Rubber	10.00	8.00	38	1.5, 1.7, 1.9, 2.1, MAX
Sriver EL	Inverted	Pimples-in Rubber	10.00	8.00	35	1.9, 2.1
Sriver FX	Inverted	Pimples-in Rubber	10.00	8.00	33	1.9, 2.1
Super Anti	Inverted	Anti-Spin Rubber	4.00	3.00	25	1.9
Tackifire Drive	Inverted	High Friction Pimples-in Rubber	9.00	9.25	38	2.1
Tackiness Chop	Inverted	High Friction Pimples-in Rubber	6.50	10.00	32	1.5, 1.7, 1.9
Tackiness Chop II	Inverted	High Friction Pimples-in Rubber	7.50	10.00	41	1.5, 1.9
Tackiness Drive	Inverted	High Friction Pimples-in Rubber	8.50	9.00	38	1.9
Tenergy 05	Inverted	High Tension Pimples-in Rubber	13.00	11.50	36	1.7, 1.9, 2.1
Tenergy 05 FX	Inverted	High Tension Pimples-in Rubber	13.00	11.50	32	1.7, 1.9, 2.1
Tenergy 05 Hard	Inverted	High Tension Pimples-In Rubber	13.00	11.50	43	1.9, 2.1
Tenergy 25	Inverted	High Tension Pimples-in Rubber	13.25	11.00	36	1.7, 1.9, 2.1
Tenergy 25 FX	Inverted	High Tension Pimples-in Rubber	13.25	11.00	32	1.7, 1.9, 2.1
Tenergy 64	Inverted	High Tension Pimples-in Rubber	13.50	10.50	36	1.7, 1.9, 2.1
Tenergy 64 FX	Inverted	High Tension Pimples-in Rubber	13.50	10.50	32	1.7, 1.9, 2.1
Tenergy 80	Inverted	High Tension Pimples-in Rubber	13.25	11.25	36	1.7, 1.9, 2.1
Tenergy 80-FX	Inverted	High Tension Pimples-in Rubber	13.25	11.25	32	1.7, 1.9, 2.1