



# Monofilament & Yarn

Performance/Customized/Co-extrusion & Bi-color technology

**YAOI**  
BE THE ONE



# Flex<sup>3</sup>

## Conductive yarn



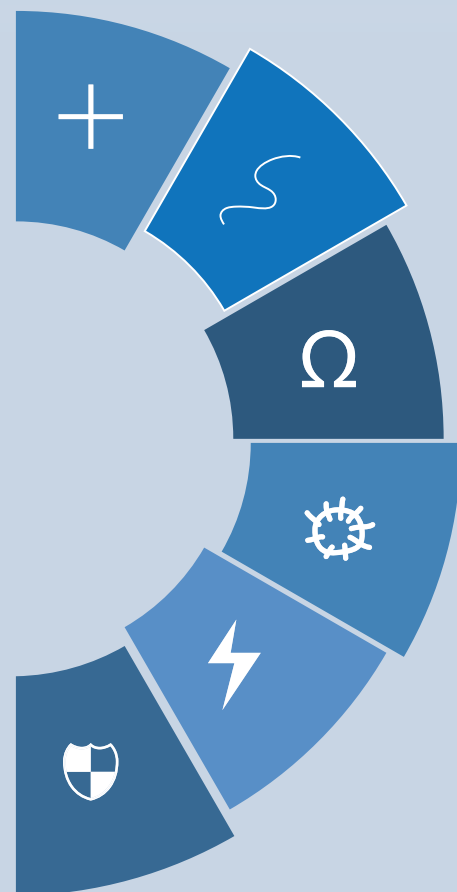
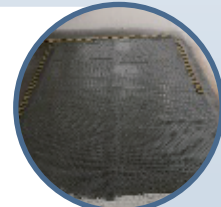
### Electronic component



### Medical Supplies



### Industrial Fabric



- + Polyester base could be changed to recycled one and color could be customized.
- ~ Replace metal wire, has premium performance of flexing resistant, tenacity and also lighter.
- Ω Stable electrical resistance in  $10^2 \sim 10^3$  ( $\Omega/\text{cm}$ ).
- ⚙ Reduce dust adsorption and thermal conduction.
- ⚡ Antistatic and fully conduct electricity.
- 🛡 EMI-protection.



ISO 9001:2015



Recycled Claim Standard



Professional color customized

## Specification

	Polyester Base
Composition	Polyester with Carbonization treatment
Color	Existing: Gray  Black  Green  Blue  Brown Color could be customized for regular specification
Available Denier	100~600D
Melting temp.	255 °C
Tenacity	Regular Tenacity : >3 g/D High Tenacity: 5.5 g/D
Electrical resistance	$10^2 \sim 10^3$ ( $\Omega/\text{cm}$ )

## Technical Data

	Matrix material	Spec.	Color	Average of Tenacity (g/D)	Average of Elongation (%)	Electric resistance ( $\Omega/\text{cm}$ )
Regular Tenacity	Polyester	170D	Blue	3.91	35.39	$\leq 10^3$
		170D	Green	4.09	36.03	$\leq 10^3$
		230D	Black	3.42	30.18	$\leq 10^3$
		350D	Gray	3.40	45.10	$\leq 10^3$
High Tenacity	Polyester	160D	Black	6.87	19.36	$\leq 10^3$
		170D	Black	5.97	24.50	$\leq 10^3$



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# Flex<sup>6</sup>

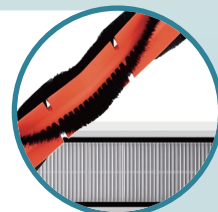
## Antistatic yarn



- + Matrix material could be N6, N66 or Polyester. Polyester base could be changed to recycled one and color could be customized.
- ∞ Replace metal wire, has premium performance of flexing resistant, tenacity and also lighter.
- Ω Stable electrical resistance in  $10^5 \sim 10^6$  ( $\Omega/\text{cm}$ ).
- ✂ Antibacterial and non-allergenic.
- ⚙ Reduce dust adsorption, not easy to get dirty to reduce washing times, environment friendly.
- ⚡ Clothes made from Flex<sup>6</sup> Antistatic yarn, which is comfortable, non-static. And has fast electric charge dissipated to avoid static shock.



### Appliance Parts



### Clean room Supplies



### Medical Supplies



### Industrial Fabric



### Specification

	Polyester Base	Nylon Base
<b>Composition</b>	Polyester with Carbonization treatment	N6 / N66 with treatment
<b>Color</b>	Gray  Red Green  Blue Color could be customized	Black
<b>Available Denier</b>	75~600D	75~600D
<b>Melting temp.</b>	255 °C	N6 220 °C N66 260 °C
<b>Tenacity</b>	Regular Tenacity : >3 g/D High Tenacity: 5.5 g/D	3 g/D
<b>Electrical resistance</b>	$10^5 \sim 10^6$ ( $\Omega/\text{cm}$ )	$10^5 \sim 10^6$ ( $\Omega/\text{cm}$ )

### Technical Data

	Matrix material	Spec.	Color	Average of Tenacity (g/D)	Average of Elongation (%)	Electric resistance ( $\Omega/\text{cm}$ )
<b>Regular Tenacity</b>	Polyester	160D	Green	4.3	20.51	$\leq 10^6$



ISO 9001:2015



Recycled Claim Standard



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