



Tsunooga® is an industrial fiber material which has excellent strength and modulus.

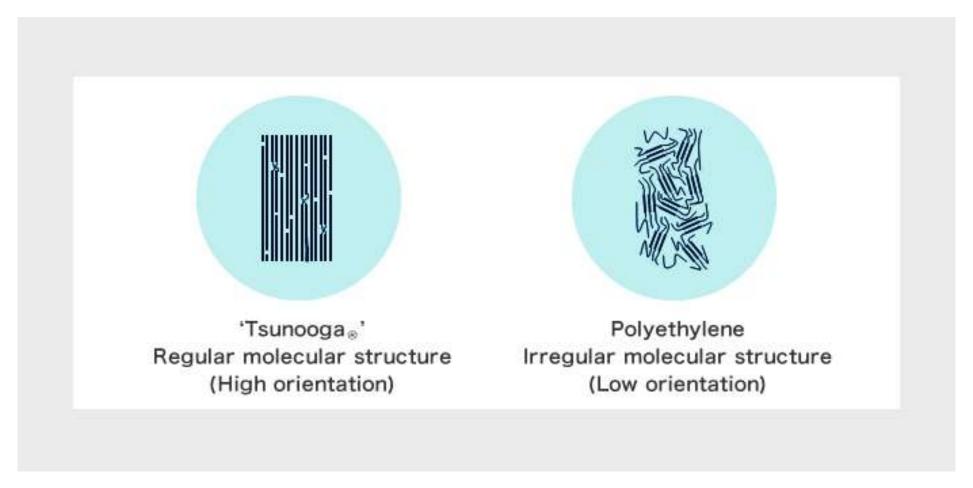
Tsunooga® surpasses para-aramid fibers in lightness and cut resistance and offers more than twice cut resistance than nylon and polyester fibers. (evaluated using the EN388 coup test method)

And low specific weight 0.97g/cm3. Moreover, Tsunooga® provides outstanding resistance to weather and chemicals.



Molecular Structure

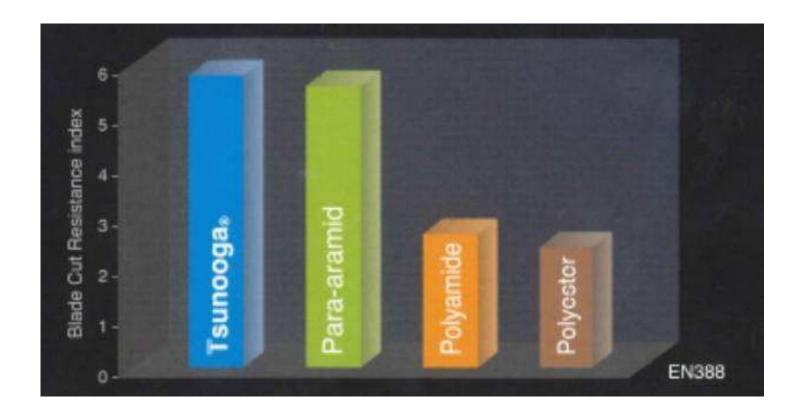
Tsunooga® is made from high molecular weight polyethylene processed under ideal spinning conditions.



Features



Cut Resistance

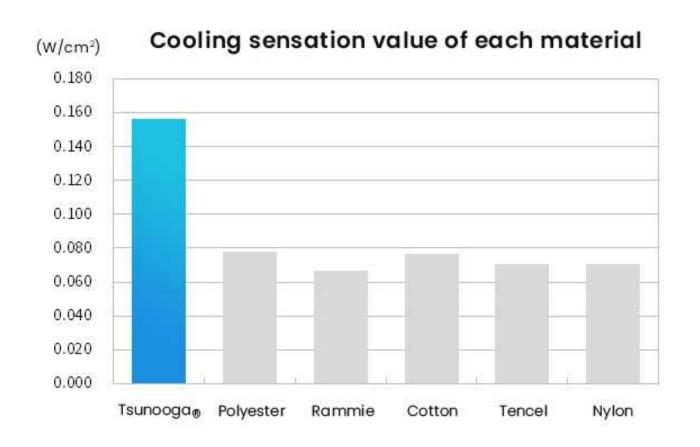


"Tsunooga®" is a high strength polyethylene fiber with excellent cut resistance. It has more cut resistance than para-aramid fiber and more than double that of polyester fiber and nylon fiber. (EN388 coup test method)

Features



Cooling Sensation



XGraph shows a-max value *Test with each material 100% fabric **XTested by TOYOBO Research Center**

"Tsunooga®" has a high specific heat and high thermal conductivity, so it has excellent ability to absorb and dissipate heat from the skin. By using it in the fabric, you can get a cool touch feeling.



Basic Properties

	Strength		Modulus of Elasticity		Fracture Elongation	Density	Moisture percentage
	c N/dtex	GPa	c N/dtex	Gpa	%	g/cm³	%
Tsunooga ®	≧ 14	≧ 1.4	≧ 430	≧ 43	6.0	0.97	0.0

Product Lineup

Туре	'Tsunooga®'	'Tsunooga®' Black spun-dyed		
Fineness / Number of filaments (cN/dtex)	220dtex / 180 filaments 440dtex / 360 filaments	440dtex / 360filaments		