

SINOARA | VICWA

INTRODUCTION

SINOARA, founded in 2011, is dedicated to manufacture high quality aramid fibers. With our own independent intellectual-property rights, We specialized in high-strength and high-modulus para-aramid from 200 to 9000 Denier which are widely used in hoses, optical cable, tyre cords and bulletproof. In 2022, SINOARA is able to manufacture over 4500 tons of para-aramid annually and is expected to expand capacity to 10000 tons/year in the future. To serve our customers better, we also process self-made filaments to staple fiber, short-cut fiber and pulp, ensuring quality and exploring application field with our powerful R&D team. With faith in this industry and technology, SINOARA aims to be the largest para-aramid manufacturer in China and your most reliable supplier around the world.

‘Succeed by profession, win by quality’ is our faith. SINOARA passed ISO9001, IATF16949 quality management system, ISO14000 environment protection system, OHSAS18001 Occupation Health Safety Management System, aiming to be a modern high-tech company by scientific management. Since the breakthrough of our high-strength and high-modulus para-aramid, SINOARA has been rewarded by Shandong government and Technology bureau as provincial key high-tech and innovation enterprise.



VICWA Para aramid series

Brand	Nominal linear density(dtex)	Nominal linear density(D)	Breaking Strength	Breaking Tenacity	Modulus	Elongation at Break	Moisture Content	Finish Content	Yarn Length	Bobbin Weight	No Code
V129 (High strength)	930	840	215	26.0	600~660	3.2~3.7	≤8.0	0.8~1.5	53.6	5.0	V12909
	1100	1000	255	26.0	600~660	3.2~3.7	≤8.0	0.8~1.5	45	5.0	V12910
	1670	1500	383	26.0	600~660	3.2~3.7	≤8.0	0.8~1.5	30	5.0	V12915
V49 (High modulus)	1580	1420	292	21.0	≥775	≤3.0	≤8.0	0.8~1.5	30	5.0	V4914
	1670	1500	310	21.0	≥775	≤3.0	≤8.0	0.8~1.5	30	5.0	V4915
	3160	2840	585	21.0	≥775	≤3.0	≤8.0	0.8~1.5	15	5.0	V4928
	6320	5680	1170	21.0	≥775	≤3.0	≤8.0	0.8~1.5	7.5	5.0	V4956
	7900	7100	1462	21.0	≥775	≤3.0	≤8.0	0.8~1.5	6	5.0	V4971
	9480	8520	1754	21.0	≥775	≤3.0	≤8.0	0.8~1.5	5	5.0	V4985
V29O (Indoor optical fiber cable)	1580	1420	292	21.0	≥580	3.2~3.7	≤8.0	0.8~1.5	30	5.0	O14
	1670	1500	310	21.0	≥580	3.2~3.7	≤8.0	0.8~1.5	30	5.0	O15
	3160	2840	585	21.0	≥580	3.2~3.7	≤8.0	0.8~1.5	15	5.0	O28
V29F(Fabric)	930	840	181	22.0	600~660	3.4~3.7	≤8.0	0.8~1.5	56.6	5.0	F09
	1100	1000	216	22.0	600~660	3.4~3.7	≤8.0	0.8~1.5	45.0	5.0	F10
	1670	1500	323	22.0	600~660	3.4~3.7	≤8.0	0.8~1.5	30	5.0	F15
	3300	3000	647	22.0	600~660	3.4~3.7	≤8.0	0.8~1.5	15.0	5.0	F30
V29R (Rubber reinforcement)	660	600	135	23.0	600~660	3.2~3.7	≤8.0	0.8~1.5	75	5.0	R06
	940	840	189	23.0	600~660	3.2~3.7	≤8.0	0.8~1.5	53.6	5.0	R09
	1100	1000	225	23.0	600~660	3.2~3.7	≤8.0	0.8~1.5	45	5.0	R10
	1670	1500	338	23.0	600~660	3.2~3.7	≤8.0	0.8~1.5	30	5.0	R15
V29S (Standard type)	220	200	41	21.0	600~660	3.2~3.7	≤8.0	0.8~1.5	90	2.0	S02
	440	400	82	21.0	600~660	3.2~3.7	≤8.0	0.8~1.5	45	2.0	S04
	660	600	123	21.0	600~660	3.2~3.7	≤8.0	0.8~1.5	75	5.0	S06
	930	840	173	21.0	600~660	3.2~3.7	≤8.0	0.8~1.5	53.6	5.0	S09
	1100	1000	206	21.0	600~660	3.2~3.7	≤8.0	0.8~1.5	45	5.0	S10
	1670	1500	309	21.0	600~660	3.2~3.7	≤8.0	0.8~1.5	30	5.0	S15
	3300	3000	617	21.0	600~660	3.2~3.7	≤8.0	0.8~1.5	15	5.0	S30

VICWA[®] STAPLE

VICWA[®] staple fibers are made from filaments, which are washed, crimped and cut and then treated by surface treatment. Staple fibers are widely used in high-end yarn, blended yarn, needle-spun felt and non-woven industry.

Specification	DPF	Length	crimp percentage	Finish	Moisture Regain
	[denier]/[dtex]	[mm]	[ea/inch]	[%]	[%]
VS 213	1.5/1.67	38.0	7	0.35	7.0
VS 215	1.5/1.67	51.0	7	0.35	7.0
VS 217	1.5/1.67	76.0	7	0.35	7.0
VS 223	2.3/2.50	38.0	6	0.35	7.0
VS 225	2.3/2.50	51.0	6	0.35	7.0
VS 227	2.3/2.50	76.0	6	0.35	7.0
VSB 213	1.5/1.67	38.0	7	0.35	7.0
VSB 215	1.5/1.67	51.0	7	0.35	7.0



VICWA[®] SHORTCUT

VICWA Short-cut fibers are produced by cutting filaments, which are suitable for aramid paper, plastic reinforcement and various composite materials.

Specification	DPF	Length	Break Strength	Finish	Moisture Regain
	[denier]/[dtex]	[mm]	[g/d]	[%]	[%]
VS 211C	1.5/1.67	1	21	0	7.0
VS 213C	1.5/1.67	3	21	0	7.0
VS 216C	1.5/1.67	6	21	0	7.0
VS 221C	2.25/2.50	1	21	0	7.0
VS 223C	2.25/2.50	3	21	0	7.0
VS 226C	2.25/2.50	6	21	0	7.0



VICWA® PULP

Para-aramid pulp is made from Vicwa filament yarn whose composition is poly(para-phenylene terephthalamide). After a series process of cutting, grinding and suspending in water, the fiber is fibrillated into pulp. The pulp not only inherits the high-strength, high-modulus, high-temperature resistance, abrasion resistance and excellent chemical stability from para-aramid fiber, but also has high dispersibility, specific surface area and grip force to provide reinforcement and viscosity control under shear stress.

Specification	C.S.F.	Specific Surface Area	Moisture Content	Average Length	Thermal Decomposition Temperature
	[ml]	[m ² /g]	[%]	[mm]	[°C]
VP 230	320-420	7-10	7	0.6-0.8	550
VP 240	420-500	9-15	7	0.6-1.0	550
VP 250	500-800	9-14	7	0.8-1.2	550
VP 260	600-880	8-13	7	1.0-1.4	550



VICWA® ARAMID PAPER

VICWA Aramid Paper can be made from para-aramid or meta-aramid. With its excellent mechanical and electro-insulation properties, VICWA® Aramid Paper allows you to achieve the optimum combination of strength and light-weight in national defense, aerospace, transportation and electrical applications. Dimensional stability makes VICWA Aramid Paper function at 180°C over 10 years which is longer than the life expectation of industrial organic high-temperature resistance paper. It remains 75% and 60% of its mechanical properties in 200C and dry state and 120C and wet state for 1000h respectively, decomposed to CO、CO and N₂ in 370C.

Standard	Type	Thickness [mm]	GSM[G/m ²]	Break Strength[N/ cm]		Elongation[%]		Tearing Strength[mN]		Dielectric constant
				Machin e Direc tion	Cross Di rection	Machine Dir ection	Cross Di rection	Machine Direction	Cross Dir ection	
VAP121		0.04	31	25	14	6.5	6.0	570	780	1.4
VAP122		0.05	43	40	24	8.7	7.0	750	1080	1.4
VAP221		0.04	35	29	24	1.7	1.4	810	900	1.4
VAP222		0.05	44	41	28	2.0	1.5	960	1100	1.4



VICWA[®] PPTA YARN

VICWA[®] Para-aramid Yarn is made of VICWA[®] Para-aramid Staple fibers or blended with other organic and inorganic fibers through various of processing technic. The yarn shows excellent performance on anticutting, flame-retarded, hear-resistant and arc-protection applications.

Type	Yarn Count NE	Aramid Percentage	Color
VPY211	10/1S	100%	Yellow/Black/Dark Blue
VPY221	20/1S	100%	Yellow/Black/Dark Blue
VPY222	20/2S	100%	Yellow/Black/Dark Blue
VPY231	30/1S	100%	Yellow/Black/Dark Blue
VPY232	30/2S	100%	Yellow/Black/Dark Blue

Note: Products can be customized by demand, please contact our marketing team

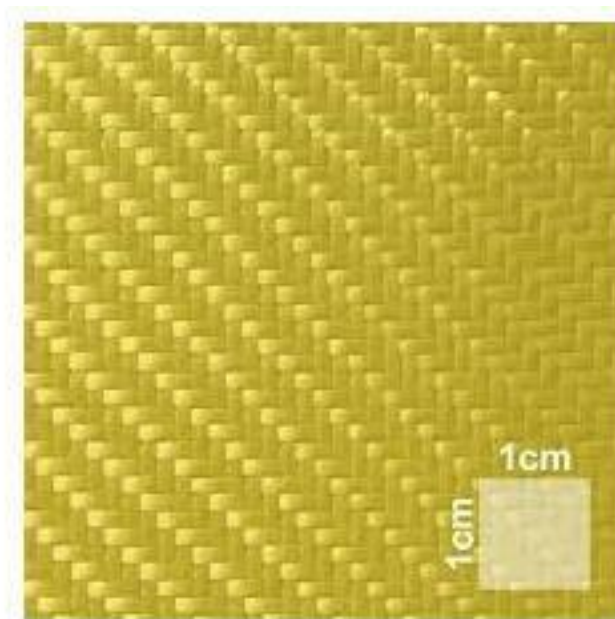


VICWA® PPTA FABRIC

VICWA® Para-aramid Fabrics are woven by VICWA® Para-aramid filaments. Plain, drill and satin weaving are available for different functions like heat-resistant, anti-cutting and anti-stabbing which can be widely used in aerospace, ballistic protection, construction reinforcement and sports equipments.

Type	Break Strength N/5		GSM (g/m ²)	Fabric count/10cm		Thickness mm	Breadth cm
	cm			Warp	Weft		
	Warp	Weft					
VF273	5600	5600	180	50	50	0.24	130
VF275	6500	6500	200	85	85	0.24	130
VF277	13000	13000	340	150	150	0.50	130
VF279	14000	14500	420	125	125	0.67	130

Note: Products can be customized by demand, please contact our marketing team



VICWA® ENGINEERED ELASTOMER

VICWA rubber **Engineered Elastomer** is a kind of modified para-aramid chopped fiber which can be used as a compounding agent to improve the properties of vulcanized and peroxide-vulcanized rubber compounds. VICWA rubber **Engineered Elastomer** can improve toughness, tear resistance and fatigue resistance while reducing hysteresis, heat accumulation and friction.

Type	Length	Moisture Content	Color
VPE13	1~3mm	5%	White
VPE22	1~3mm	5%	Yellow
VPE24	1~3mm	5%	Yellow

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