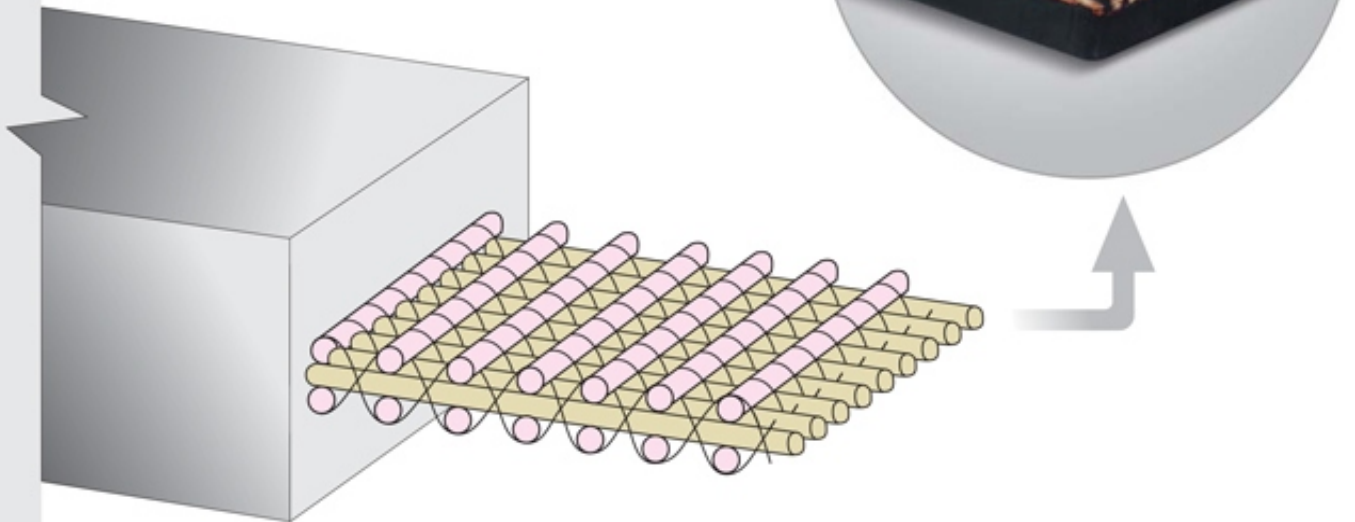


OUTWARD APPEARANCE DIAGRAM



Tensile Strength	Min. Tensile Strength (kg/cm)	Elongation at 10% (Max.)	Carcass Thickness (mm)	Standard Thickness of Cover		Belt Thickness	Belt Weight (kg/M ²)
				Top Cover	Bottom Cover		
KA 315	330	0.5	1.4	5	2	8.40	8.90
KA 400	420	0.5	1.5	5	2	8.50	9.00
KA 500	525	0.5	1.7	6	3	10.70	11.30
KA 630	661	0.5	2.0	6	3	11.00	11.65
KA 800	840	0.5	2.0	6	3	11.00	11.80
KA 1000	1050	0.5	2.6	6	3	11.60	12.00
KA 1250	1312	0.5	2.8	8	4	14.80	15.70
KA 1400	1470	0.5	3.3	8	4	15.30	16.40
KA 1600	1680	0.5	3.3	8	4	15.30	16.60
KA 1800	1890	0.5	3.4	8	4	15.40	16.90
KA 2000	2100	0.5	3.5	10	5	18.50	19.80

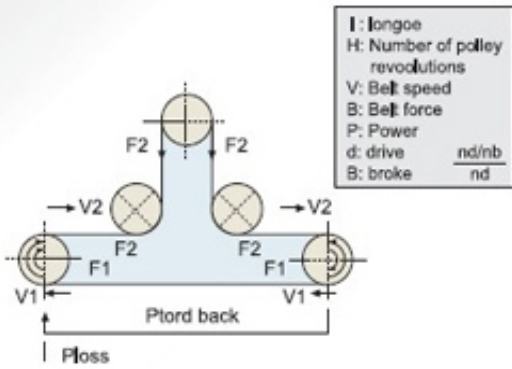
3

HALEY Conveyor Belt





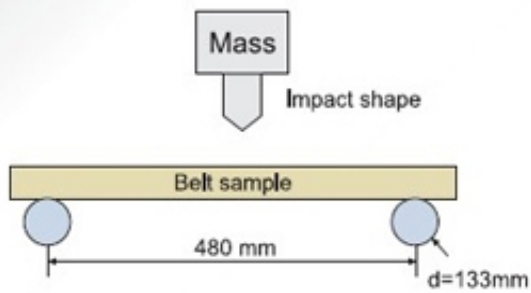
KEVLAR®耐疲勞試驗圖



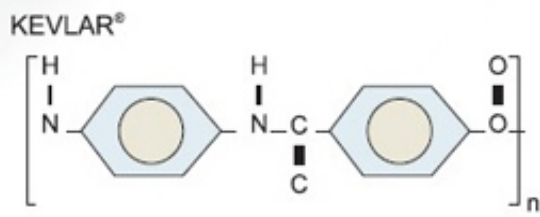
KEVLAR®與EP/NN分子結構圖



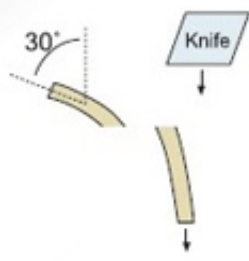
KEVLAR®耐衝擊試驗圖



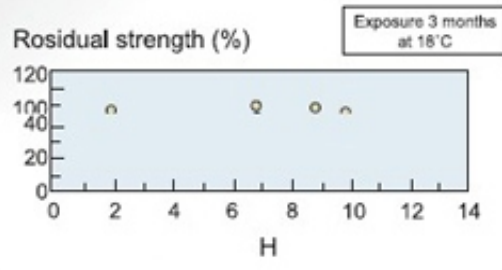
KEVLAR®化學結構圖



KEVLAR®耐撕裂試驗圖



KEVLAR®酸鹼值變化圖

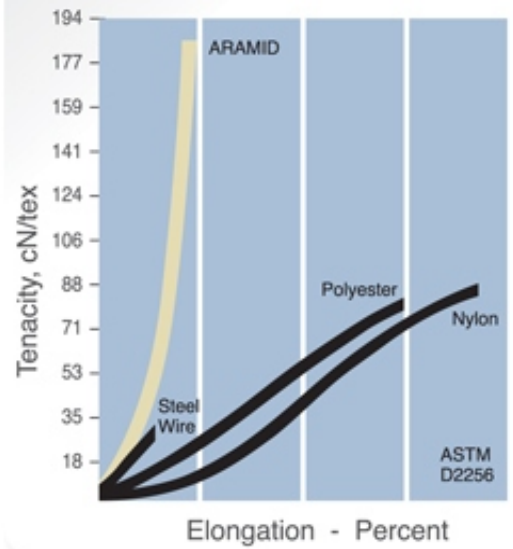




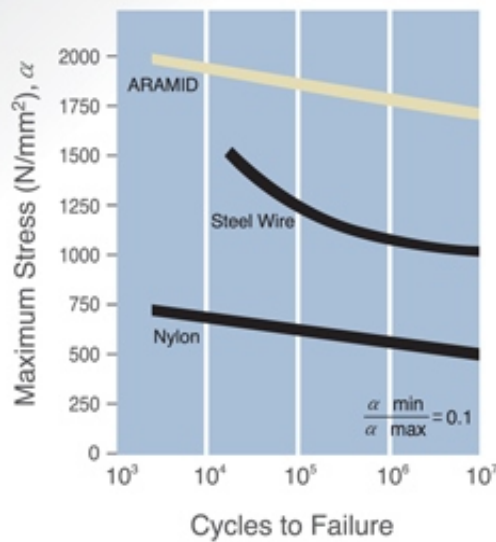
MECHANICAL PROPERTIES

	ARAMID	Steel	Nylon	Polyester
Tenacity (cN Tex ⁻¹)	190	30 - 50	86	82
Tenacity (Nmm ⁻²)	2,760	2,400 - 2,800	1,000	1,150
Modulus (N Tex ⁻¹)	44	18-25	4.8	9.7
Modulus (Nmm ⁻¹)	58,000	145,000	5,500	13,800
Elongation at Break (%)	4.0	3.0	18.3	14.5
Density (gcm ⁻²)	1.44	7.85	1.14	1.38

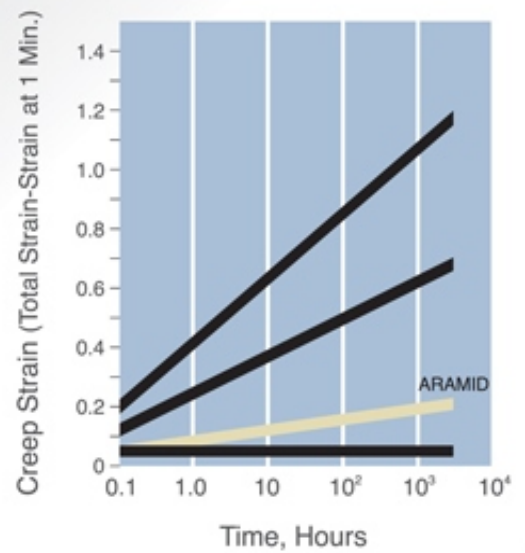
STRESS - STRAIN OF INDUSTRIAL FIBERS



TENSION - TENSION FATIGUE



CREEP AT 4X RATED LOAD



- 1.Heat and fire resistance.
- 2.Good adhesion between plies and cover rubber.
- 3.Non-transforming.
- 4.Excellent troughability.

- 5.Impact,penetration & slit resistance.
- 6.Prevent flammable material from penetration.
- 7.Low elongation.

- 8.Light weight.
- 9.Fatigue resistance.
- 10.Corrosion-proof.
- 11.Non-conducting.
- 12.Great flexibility.

	KEVLAR®	Steel	(NN / EP)
Impact resistance	⊙	△	○
Adhesion	⊙	△	○
Toughness	⊙	△	○
Slit resistance	⊙	△	○
Elongation	○	⊙	△
Flamme resistance	○	⊙	△
Static electricity proof	⊙	△	○
Corrosion resistance	⊙	△	○
No warp cord pop-out	⊙	△	○
Flexibility	⊙	△	○
Light weight	⊙	△	○
Fatigue resistance	⊙	○	△
Splicing time	○	△	⊙
Belt life	⊙	○	△
Flexibility when overload	⊙	△	○
Min. power	⊙	△	○
Smaller dia pulley	⊙	△	○
Splicing life	⊙	○	△
Min.facility cost	⊙	△	○
Min. Splicing numbers for long distance belt splicing	⊙	△	○
Heat Resistance	⊙	△	○

⊙ Excellent ○ Good △ General



Characteristics Of HALEY Conveyor Belt

LOW ELONGATION AND HIGH STRENGTH

Due to the low elongation of Kevlar, it is suitable for long distance conveyor. The high tensile strength of KEVLAR® fabric can equivalent to steel cord belt.



IMPACT, PENETRATION AND SLITTING RESISTANT

The KEVLAR® fabric is extreme strong to prevent from cutting through sharp materials or broken stone. Impact resistance is also better under high drop distance.



SUPERIOR HEAT AND FIRE RESISTANT

The extreme high heat resistant can prevent damage from hot materials; even the hot burning materials can not penetrate though the KEVLAR® fabric.

CORROSION RESISTANT RUST FREE

The KEVLAR® is a kind of synthetic fiber will have no rust problem and also corrosion-free, non-conducting will cause no magnetic influence to system.



COST SAVING

The HALEY belt is thinner and lighter than steel cord, it can be longer length in one roll, the numbers of joint and total installation cost will be lower. Finger joint and hot splicing is recommended and belt can be repair as same as fabric belt.

The low weight of belt can contribute to energy saving from daily operation.

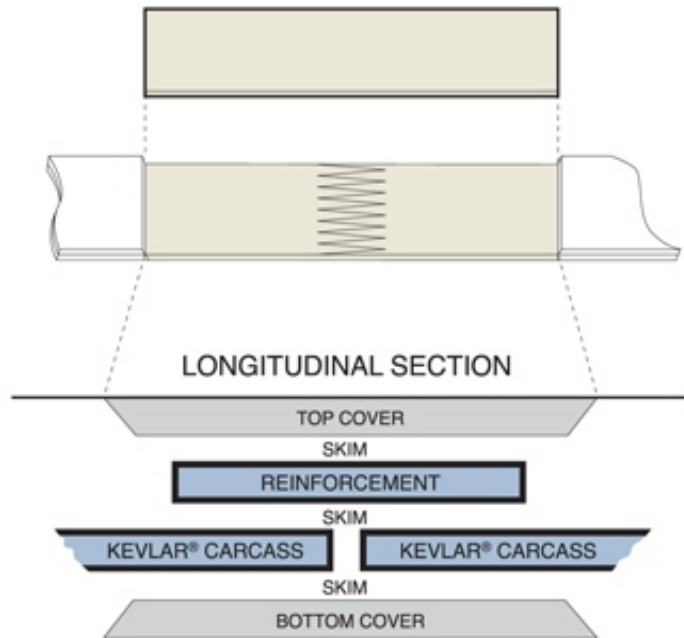
NO ENVIRONMENTAL PROBLEM

The HALEY belt can easily be recycled as same as other textile belt. No need for extra high expense in dealing with the waste belt.

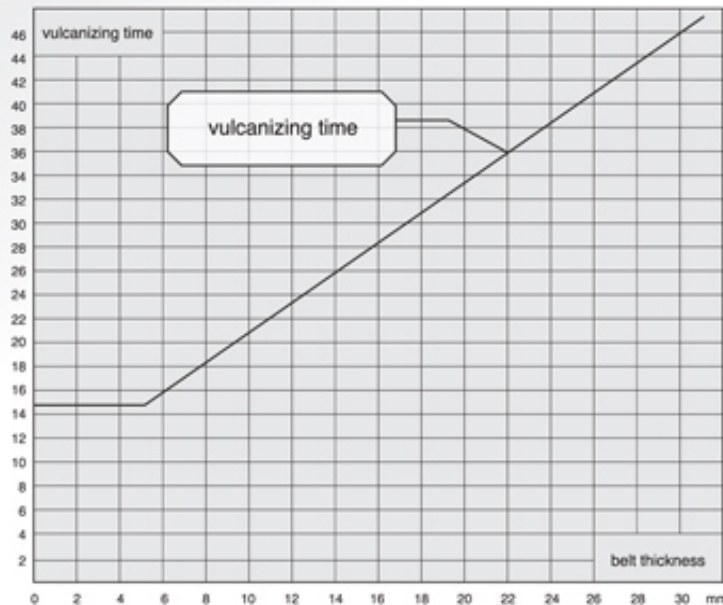


BELT SPLICING

HYC's long experienced and improved finger joint technology can make strong and durable splicing as fabric belt.



RELATION OF VULCANIZING TIME TO BELT THICKNESS



NOTICE

Minimum curing time of normal belting is 15 minutes.

Minimum curing time of HR, OR and FR belting is 20 minutes.

Curing time: starts from the time when temperature reaches the set temperature.

Curing temperature exceeding are recommend, temperature will effect product quality, therefore curing temperature must be monitored.

Curing machine can be separated only when the temperature is below 80°C.

Applicable Belts	Temperature°C	Kg/cm ² (Lbs/in ²)
Natural Rubber	140±5°	
heat Resistant	147±5°	7-10
Oil Resistant	147±5°	(100-144)
Fire Resistant	140±5°	

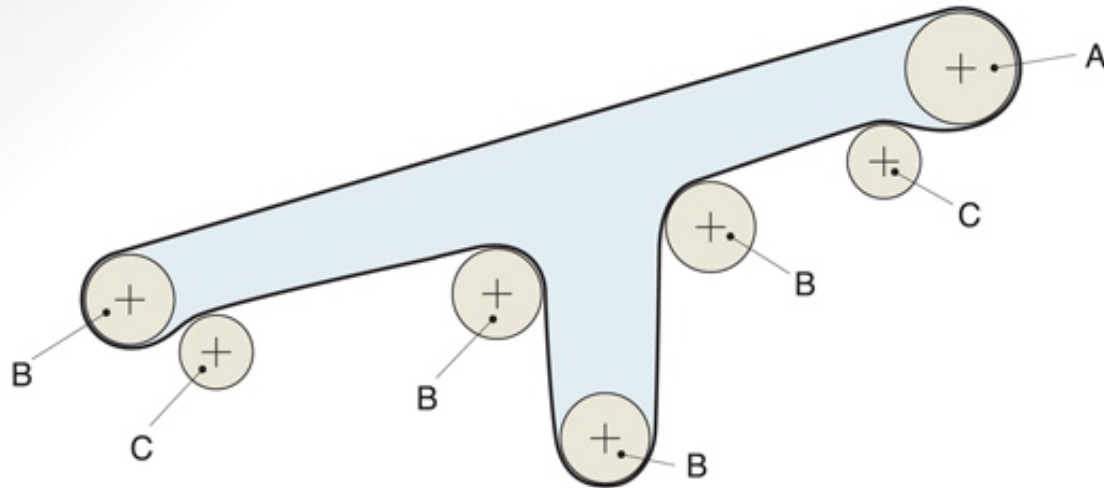
※ The above data is for your references only, please contact HYC's representative for more information.



PULLEY DIAMETER

(Min. mm)

	KA315	KA400	KA500	KA630	KA800	KA1000	KA1250	KA1400	KA1600	KA1800	KA2000
Group A	500	500	500	500	600	600	650	700	700	750	800
Group B	400	400	400	400	450	450	500	500	500	550	600
Group C	300	300	300	300	350	350	400	450	450	500	550



DIAMETERS OF BELTING IN ROLLS READY FOR DELIVERY

Belt length (M)	Total belt thickness (mm)										Diameter (m)	
	8	9	10	11	12	13	14	15	16	18	20	22
50	0.74	0.79	0.82	0.86	0.90	0.93	0.93	1.00	1.03	1.09	1.15	1.20
75	0.90	0.95	1.00	1.04	1.09	1.13	1.17	1.21	1.25	1.32	1.39	1.46
100	1.03	1.09	1.14	1.20	1.25	1.30	1.35	1.40	1.44	1.52	1.61	1.69
125	1.15	1.21	1.27	1.34	1.40	1.45	1.50	1.56	1.61	1.70	1.80	1.88
150	1.25	1.32	1.40	1.47	1.53	1.59	1.65	1.70	1.76	1.81	1.97	2.06
175	1.35	1.43	1.50	1.58	1.65	1.71	1.78	1.84	1.90	2.02	2.12	2.22
200	1.44	1.53	1.61	1.69	1.76	1.83	1.90	1.97	2.03	2.15	2.26	2.38
250	1.61	1.71	1.80	1.88	1.96	2.04	2.12	2.20	2.27	2.40	2.54	2.66
300	1.76	1.87	1.97	2.06	2.15	2.24	2.32	2.40	2.48	2.63	2.78	2.91
350	1.90	2.02	2.13	2.22	2.32	2.42	2.52	2.59	2.68	2.84	3.00	3.14
400	2.03	2.15	2.27	2.38	2.48	2.58	2.68	2.78	2.81	3.04	3.20	3.36
450	2.15	2.28	2.40	2.52	2.64	2.74	2.84	3.04	3.04	3.22	3.40	3.56
500	2.26	2.40	2.50	2.56	2.78	2.89	3.00	3.20	3.20	3.40	3.58	3.76

