

always with you... Achilles

Achilles

Materials & Products

ACHILLES VINISTAR Series



ACHILLES VINISTAR Series

ACHILLES VINISTAR Series is transparent flexible PVC film with UV inhibitor. It is a high quality product for outdoor applications such as tent and boat window, party tents and other outdoor usages. It has excellent Clarity, UV Resistant. It has been accepted in many countries such as Europe, North America, and Oceania for many years.

Main Characteristics

- * Excellent Transparency.
- * Excellent UV Resistant. (cutting UV more than 90%)* not guaranteed value
- * High Frequency Welding is widely used to make finished products.



ACHILLES VINISTAR LS

ACHILLES VINISTAR LS is a New Innovated product.

For the fabricators; because of this low shrinkage characteristic, it is not required to be relaxed and taken out the shrinkage for cutting, sewing or welding.

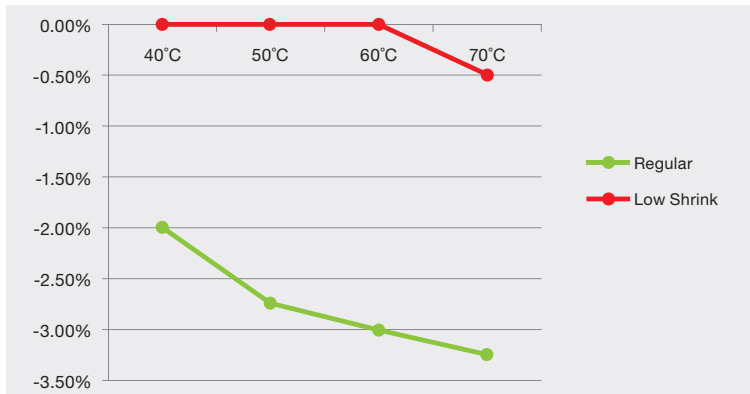
Fabricators will not waste time and space! It is ready to process right away.

Another advantage is, you may use film both of horizontal and vertical way.

Endusers ; After placing the product, no need to worry about shrinkage issue.

Low Shrink Film - Test data.

Item : ACHILLES VINISTAR Super
Size : 0.50mm x 137cm



Remark : Test direction = Machine direction

Information stated on this data sheet is to best of our knowledge true and reliable, but can not be guaranteed.

- Features** :
- Good Low shrinkage performance.
 - Saving time & space and supporting higher productivity.
 - Same physical properties as ACHILLES VINISTAR Super.
 - More details, please consult with our sales representative.

Capabilities Thickness : 0.50mm and thicker
Width : 100cm ~ 140cm
Hardness : 41PHR ~ 49PHR



ACHILLES VINISTAR CF

ACHILLES VINISTAR CF is optimal for outside usage in areas effected by cold weather. Flexibility and transparency are not effected in low temperature.

Applications : Tent windows and Café blinds in the cold weather.

Attention : The film gets harder in the more colder weather, please take extra care when you store the film. The film can get crack when it gets impact.

Cold Resistant Test Data

Cold Crack	JIS K-6772	°C	MD	TD
			-55	-50

Remarks : M.D.= MACHINE DIRECTION

T.D. = TRANSVERSE DIRECTION

*Information stated on this data sheet is to best of our knowledge true and reliable, but can not be guaranteed.



ACHILLES VINISTAR FR

We also offer a fire-retardant version that meets strict safety requirement and is therefore highly suited for applications where fire is a risk such as party tents.

Applications : Party tent windows and Café blinds



ACHILLES VINISTAR Wide

ACHILLES VINISTAR Wide is great item for big usage such as café blinds, partitions for outside of the cafes. It makes possible to have less welding marks on the windows.

Applications : Party tents and Café blinds

Capabilities : 0.4mm and 0.5mm



| Applications

General purpose for especially outdoor usage

- Window for Caravan Tents/Pary Tents/Boats
- Marin Covers
- Café blinds

| More Options are Available

- Better Cold Resistance
- Better UV Resistance
- Anti-Static
- Fire-Retardant
- Easy release
- Less Shrinkage
- Heat shielding
- Printable

| Product General Capabilities

Thickness : 0.25mm ~ 3.0mm

Width : 915mm ~ 1830mm

Hand : 1S (#370) ~ 6S (#570)

-- there is some limitations due to thickness

******* Please contact us for further information *******

Technical Data Sheet

Items / Unit / Test method		Calendered				Wide FR	FR	Low Shrink	Cold Flex
		0.30mm UV 3S	0.50mm UV 3S	0.75mm UV 6.5S	1.0mm UV 4S	0.5mm 3S	0.5mm 5S	0.50mm UV 3S	0.50mm UV 3S
100% Modulus [N] JIS K 6732	M.D.	35.3	57.2	53.7	99.9	57.4	44.7	55.1	61.4
	T.D.	31.0	55	50.9	93.9	51.3	38.7	53.2	61.1
Tensile Strength [N] JIS K 6732	M.D.	83.9	135.7	166.7	250.9	132.9	129.6	131.6	143.3
	T.D.	79.4	134.6	157.7	226.5	124.0	124.7	129.1	133.6
Tear Strength [N] JIS K 6732	M.D.	25.4	41.9	48.5	80.9	40.3	33.2	41.3	49.7
	T.D.	25.6	41.7	47.0	77.9	40.3	34.3	40.6	50.6
Elongation [%] JIS K-6732	M.D.	358	349	460	402	331	349	352	369
	T.D.	398	370	450	400	357	384	370	370
Cold Crack [°C] JIS K 6772	M.D.	-45	-45	-50	-50	-40	-20	-50	-55
	T.D.	-40	-35	-45	-45	-40	-20	-40	-50
Light Transmission [%] JIS K 7105		88.6	87.2	86.20	84.40	87.10	86.80	87.50	89.40
Weather Resistance	500 hours	No major physical property change							

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Attention for Handling & Storing

Please take extra care when handling the rolls.

Dropping rolls on the floor or high impact knocks will cause damage or dents to the film.

Excessive vibration will create pockets of air entrapment that will cause indentation marks that may not disappear.

Avoid storage in direct sunlight, high temperature and/or high humidity.

Recommended storage condition is 10-30 degree C and less than 50% RH.

Attentions : ① PVC film may temporarily become hazy by absorbing water but will resume its transparency as the moisture evaporates.

② Deterioration of PVC film may be accelerated by chemicals such as solvents, detergents, mist of pesticides and so forth.

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■Specifications in this catalogue are subject to change anytime without prior notice.

<http://www.achillesplastics.com/english> <https://www.achilles.jp>

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