



# STAR POLYMERS INC.

*Leaders In Tyre Cord Fabrics*



- Nylon Tyre Cord Fabrics
- Polyester Tyre Cord Fabric
- Chafer Fabric
- Nylon Cords
- Polyester Cord



# About

A leading name as suppliers of Tyre Cord Fabric, Chafers and Yarns since last 20 years. Today our name stands for Quality, Commitment and Growth.

We are Indenting Agents for Shandong Shifeng ( Group ) Co. Ltd., China.

We are Distributor / Stockist and Agents for Haicatex ,Vietnam (A company known worldwide for its quality Tyre Cord Fabrics)

We have our own Warehouses to stock large range of products and almost all the sizes required and we maintain a robust Inventory of all the sizes and Specs of Fabrics in both our warehouses.

All our products in both our principal's factories are manufactured in accordance to internationally recognized quality standards and are supplied to big Tyre companies worldwide.

The statistics from different sources gathered shows 3.66 billion units demand for tyres all over the globe in 2018 which has a great scope for tyre raw material suppliers and India being a major growth market, there is immense growth in the Auto Tyres and EV Tyres in the country. Our marketing team supports our customers across the country, providing expert guidance on the relevant material configurations.

## Nylon Tyre Cord Fabrics

Tyre cord fabrics are used as reinforcing materials for tyres and designed to keep tyres in shape and support vehicle weight, having a significant impact on tyre performance. We can supply Tyre Cord Fabrics in all specs, sizes and construction.

YARN TYPE	NYLON
DENIER	630/1,840/1,1260/1 840/2,1260/2,1680/2,1890/2
FABRIC TYPE	Greige and Dipped fabric.
APPLICATION	All categories of tyres Bus and truck, light commercial vehicle, passenger car, agriculture, two-wheeler, OTR including Bicycle tyres



S.No.	ITEM	UNIT	CORD CONSTRUCTION				
			1890D/2	1680D/2	1260D/2	1260D/3	840D/2
1	Breaking Strength $\geq$	N/pc	303.8	269.5	205.8	303.8	132.3
2	EASL 100N	%	9.5 $\pm$ 0.8			9.5 $\pm$ 0.8	
	EASL 88.2 N			9.5 $\pm$ 0.8			
	EASL 66.6 N				9.5 $\pm$ 0.8		
	EASL 44.1 N						9.5 $\pm$ 0.8
3	Adhesion H-Test 136 $^{\circ}$ C, 50 Min, 3 Mpa $\geq$	N/cm	166.6	156.8	137.2	166.6	107.8
4	Variation Coefficient of Breaking Strength $\leq$	%	5.0	5.0	5.0	5.0	5.0
5	Variation Coefficient of Elongation at Breaking		7.5	7.5	7.5	7.5	7.5
6	Dip Pick Up		4.5 $\pm$ 1.0				
7	Elongation at Breaking		23 $\pm$ 2.0				
8	Cord Gauge	Mm	0.78 $\pm$ 0.04	0.75 $\pm$ 0.04	0.65 $\pm$ 0.04	0.78 $\pm$ 0.04	0.55 $\pm$ 0.04
9	Cable Twist	T/m	320 $\pm$ 15	330 $\pm$ 15	370 $\pm$ 15	320 $\pm$ 15	460 $\pm$ 15
10	Shrinkage Test 160 $^{\circ}$ C, 2 Min; $\leq$	%	6.5				
11	Moisture Content $\leq$	%	1.0				
12	Fabric Width	Cm	145 $\pm$ 2				
13	Fabric Length	m	1270 $\pm$ 50	1300 $\pm$ 50	1300 $\pm$ 50	1270 $\pm$ 50	1100 $\pm$ 50



## Polyester Tyre Cord Fabric

Polyester Tyre Cord Fabrics are used as reinforcing materials for tyres & has a significant impact on tyre performance and is preferred in radial and high-speed tyres. Polyester Tyre Cord Fabrics are available in 1000/2, 1300/2, 1500/2 and 2000/2.

PROPERTIES	UNITS	1000 D/2	1300 D/2	1500 D/2	2000 D/2
BREAKING STRENGTH	N	≥ 140	≥ 183	≥ 206	≥ 275
BS UNEVENNESS	%	≤ 3.5			
BREAKING ELONGATION	%	15 ± 2.0	15 ± 2.0	15 ± 2.0	16 ± 2.0
BE UNEVENNESS	%	≤ 5.5	≤ 5.5	≤ 5.5	≤ 5.5
EASL	%	4.5 ± 1.0	4.5 ± 1.0	4.5 ± 1.0	4.5 ± 1.0
H-ADHESION	N/CM	≥ 130	≥ 140	≥ 150	≥ 180
RUBBOR COVERAGE AREA	%	≥ 80	≥ 80	≥ 80	≥ 80
CORD GAUGE	MM	0.56 ± 0.03	0.61 ± 0.03	0.66 ± 0.03	0.75 ± 0.03
SINGLE TWIST (Z-PLY)	T/M	450 ± 15	390 ± 15	370 ± 15	330 ± 15
FLODING TWIST (S-CABLE)	T/M	450 ± 15	390 ± 15	370 ± 15	330 ± 15
SHRINKAGE (177 °C × 2min × 0.5g/dtex)	%	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
DIP PICK UP	%	3.5 ± 1.0	3.5 ± 1.0	3.5 ± 1.0	3.0 ± 1.0
MOISTURE CONTENT	%	≤ 0.50	≤ 0.50	≤ 0.50	≤ 0.50
STIFFNESS	N/CORD	≤ 0.70	≤ 0.85	≤ 1.0	≤ 1.2



## Chafer Fabric

Chafer Fabrics are speciality fabrics used in manufacture of heavy duty tyres specially to protect the side wall of tyres. The fabric is offered in both wicking and non wicking types in construction of 420, 840 and 1260 denier.

MATERIAL: NYLON 6 Construction: Chafer(Square woven)				
TEST ITEMS	UNIT	SPECIFICATION		
		Mono 420D/1	Mono Multi 420D/1	Chafer 840D/1
Breaking Strength<Warp>	Kg/cord	Min 2.3	Min 2.6	Min 6.2
Breaking Strength<Weft>	Kg/cord	Min 2.0	Min 2.6	Min 5.6
Shrinkage @150 °C X30min	%	Max 4.5	—	Max 4.5
Gauge	mm	0.59±0.05	0.31±0.05	0.58±0.05
Dip Pick Up	%	3.0±1.0	Min 12.0	Min 9.0
Adhesion Peeling	Kg/25mm	Min 17.0	Min 17.0	Min 17.0



## Nylon Cords

We have Nylon Cords in almost all Deniers used in the Rubber Industry. Nylon Cords are used in a variety of applications in Rubber products. Nylon Cords Grey and Dipped : 840/2, 1260/2, 1680/2 – 300 TPM



## Polyester Cords

We have Polyester Cords in almost all Deniers used in the Rubber Industry. Polyester Cords are used in a variety of applications in Rubber products. Polyester Cords Grey and Dipped : 1000/2, 1300/2, 1500/2 2000/2 – 300 TPM





## STAR POLYMERS INC.

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### Punjab Warehouse:

Qila No. 39/3/2, Jahangir Road,  
VPO- Sohian, Verka,  
Amritsar -143501 ( Punjab ) India

### Mumbai Warehouse:

Godown no- 1 to 5, Mayashree Complex,  
Opp. Priti Petrol Pump.  
Near Gagan Freight Carrier,  
Purna Village, Bhiwandi.