

# Textile Tire Cord

Textile cord is reinforcing material that constitutes the inside of a tire and is a vital material that helps maintain their shape and makes driving more comfortable.

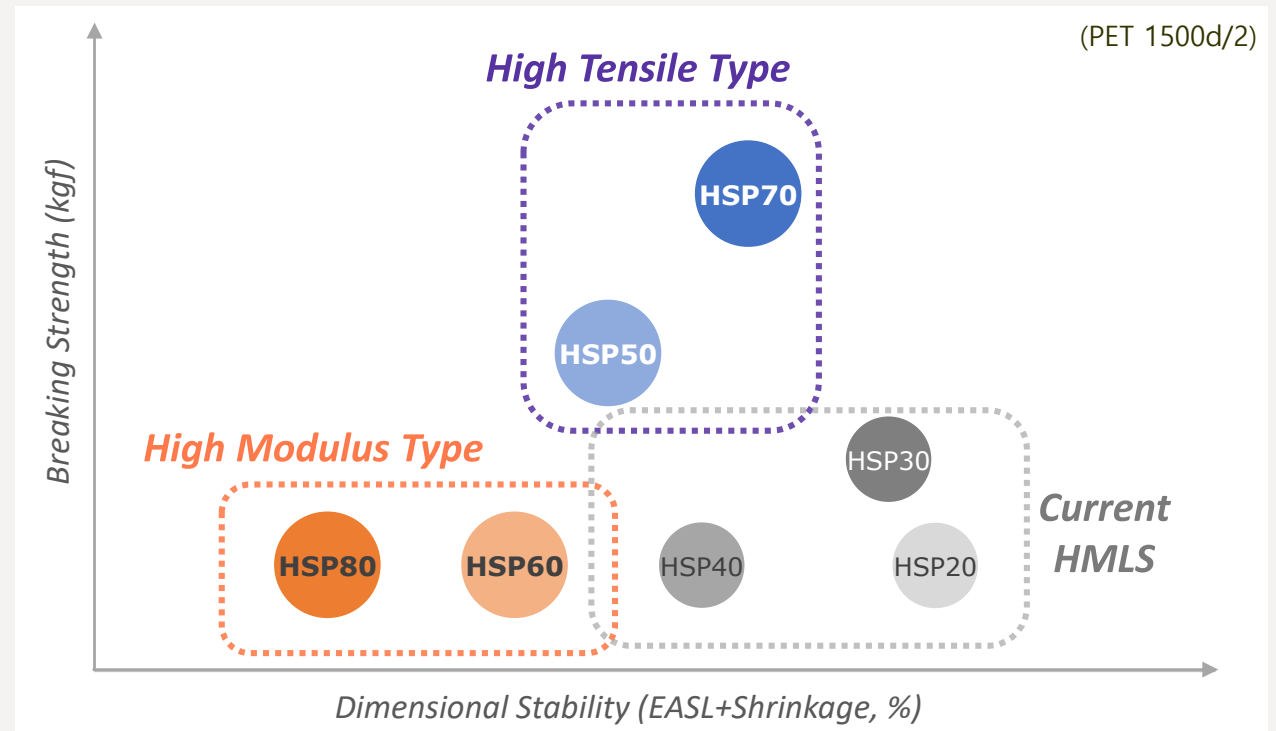
Hyosung Advanced Materials has been supporting customers more than 50 years, and we have been supplying various kind of textile cord to valuable customers. In Polyester tire cord sector in particular, one out of two passenger cars in the world uses textile cords produced by Hyosung Advanced Materials, demonstrating our unrivaled position in the sector.

## Commercial PET Cord

As the world's leading tire cord manufacture, Hyosung Advanced Materials has been supplying various kind of High Modulus Low Shrinkage (HMLS) Polyester which is under the name of HSP.

## Advanced PET Cord

Hyosung Advanced Materials has highly advanced textile cords portfolios that satisfy ever tire manufacture's needs.



# Textile Tire Cord

## Commercial PET Cord

### Portfolio

Yarn Type		Titer Range (Denier)					
		850	1000	1300	1500	2000	3000
<b>HSP20</b>	Non-AA		●		●		●
<b>HSP30</b>	Non-AA	●	●		●	●	
<b>HSP40</b>	Non-AA		●	●	●	●	●
	AA			●		●	
<b>HSP50</b>	Non-AA		●	●	●	●	●
<b>HSP70</b>	Non-AA	●	●	●	●	●	●
<b>HSP80</b>	Non-AA		●		●	●	●

\* AA : Adhesive Activated

\* Non-AA : Non Adhesive Activated

### Properties

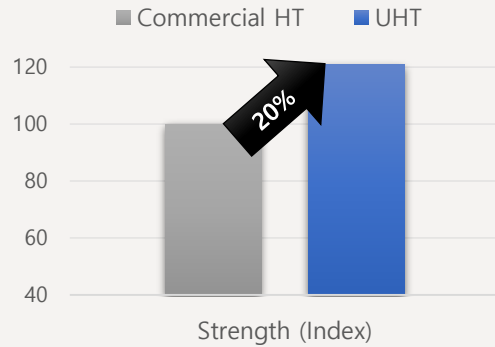
Yarn Type	Yarn Tenacity (g/d)	Dipped Cord (1500D/2)		
		Breaking Strength (kgf)	EASL+Shrinkage (%)	Twist (T/10cm)
<b>HSP-20</b>	7.8	22.0	6.4	37
<b>HSP-30</b>	8.7	23.0	6.3	37
<b>HSP-40</b>	7.4	22.0	5.8	38
<b>HSP-50</b>	8.8	24.0	5.6	36
<b>HSP-70</b>	9.3	25.5	6.0	37
<b>HSP-80</b>	7.4	22.0	5.1	37

\* General specification are given, all properties are adjusted to customer's specifications.

# Textile Tire Cord

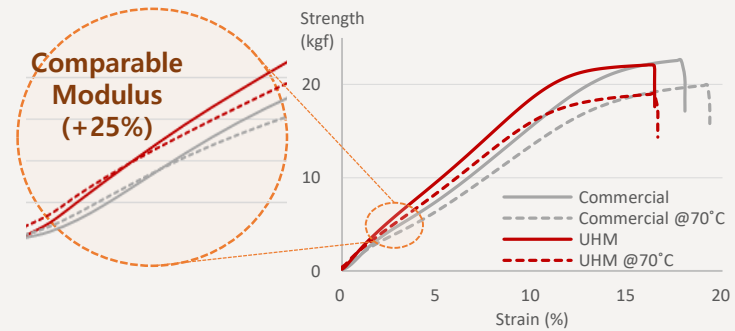
## Advanced PET Cord

### UHT (Ultra High Tensile Strength) PET



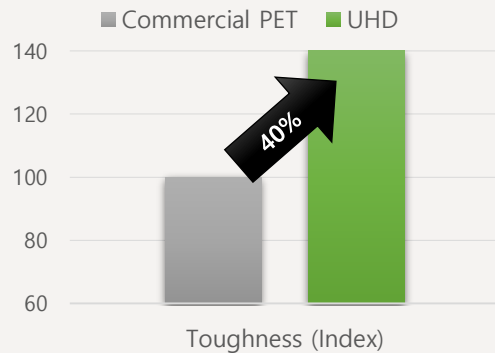
- **Weight reduction**  
(by gauge and ply number down)
- **Lower Rolling Resistance**

### UHM (Ultra High Modulus) PET



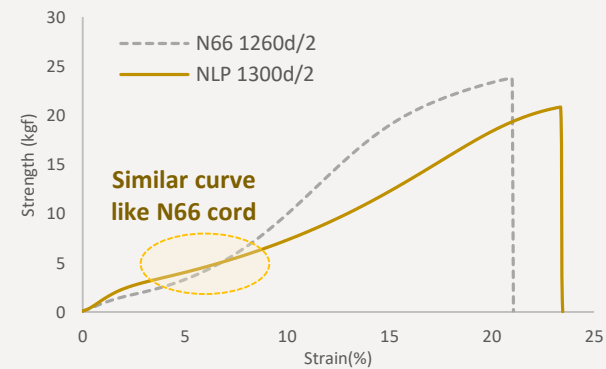
- **Rayon Replacement**
- **Performance Improvements**  
(Flat-spot, Ring & Handling)

### UHD (Ultra High Durable) PET



- **Enhancing Durability**  
(Better Fatigue & Heat resistance)
- **Mileage Improvement**

### NLP (Nylon Replacement PET)



- **Cost Saving**
- **Improving Tire Uniformity**

# Textile Tire Cord

## Nylon6,6 Cord

Nylon6,6 tire cord offers better strength, heat resistance and outstanding adhesion than other materials. It is widely used for cap ply of passenger and light commercial vehicle. Furthermore, it can be used for carcass of special tires (aircraft, racing and truck and bus bias tires).

### Portfolio

Yarn Type	Titer Range (Denier)				
	420	840	1260	1680	1890
HT	●	●	●	●	●
SHT			●		●
High LASE	●	●	●		

### Properties

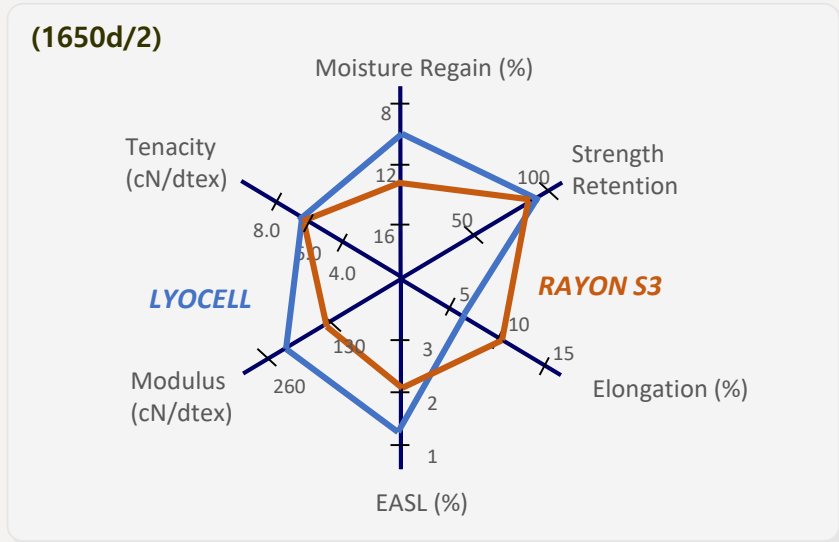
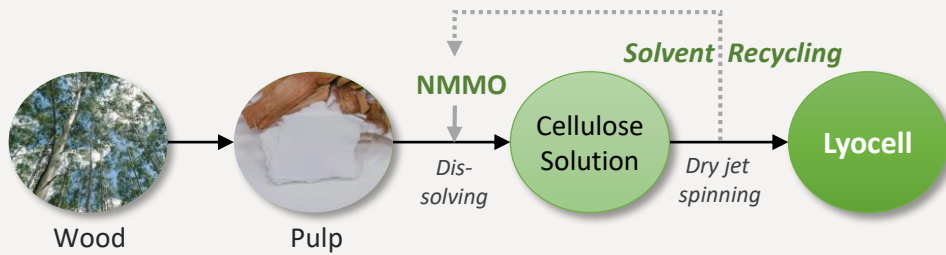
Yarn Type	Yarn Tenacity (g/d)	Dipped Cord (1260D/2*37T/10cm)		
		Breaking Strength (kgf)	EASL (%)	Elongation (%)
HT	10.3	23.0	9.0	21.5
SHT	11.0	26.0	9.0	20.0
High LASE	10.3	23.0	7.0	17.0

\* General specification are given, all properties are adjusted to customer's specifications.

# Textile Tire Cord

## Lyocell Cord

Hyosung Advanced Materials developed the very first Lyocell yarn and tire cord in the world by its original technology. Lyocell has been highlighted as an alternative to Rayon, as it has comparable physical properties like Rayon, and it also praised as an eco-friendly material.



## Portfolio

Yarn Type	Titer Range (Denier)		
	1100	1650	2200
E-type	●	●	●
M-type		●	

## Properties

Yarn Type	Yarn Properties (Dry 1650D)		
	Tenacity (g/d)	EASL (%)	Elongation (%)
E-type	6.2	1.3	6.5
M-type	6.9	1.0	3.7

\* General specification are given, all properties are adjusted to customer's specifications.