

# Beyond Conventional

## Extreme conditions require extreme performances

Twixtra<sup>®</sup>, customized according to customers' reinforcement needs, is the solution for requirements that cannot be met by standard tire cord fabrics.

Twixtra<sup>®</sup> product range is the combination of different kinds of fibers in one cord to design a new set of properties, which is impossible to obtain from a single material.

Kordsa has been the world's leading supplier of textile reinforcement materials for the tire industry since 1973.

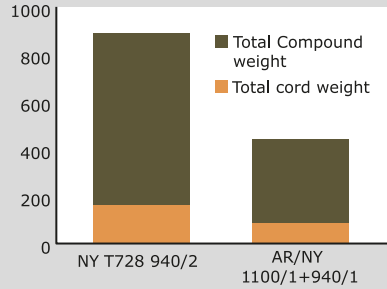
	 Performance	 Lower Gauge	 Cut Resistant	 Low Weight	 Cost Optimization
 UHP & SUV	✓	✓		✓	✓
 Aircraft Tires Belt			✓	✓	
 Truck Bias Carcass			✓	✓	
 Forestry & Agro Tires Belt & Carcass			✓	✓	✓
 2/3 Wheelers	✓				✓



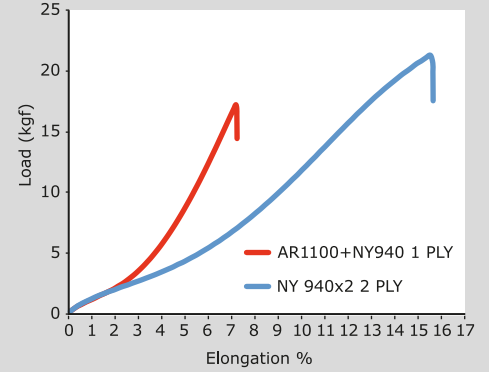
## High Performance Cap Ply

AR/NY Hybrid cords deliver high modulus where you require dimensional stability. Compared to conventional cap ply material, mono layer Twixtra cap ply is sufficient for UHP performance. Due to less material consumption, RR will be relatively lower.

### Rubberized Ply Weight 245/45R18 96Y



### Force & Elongation @ 70C

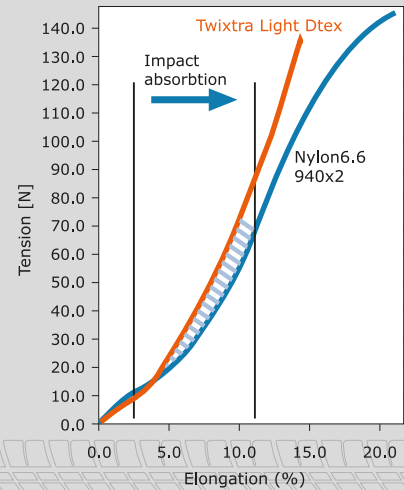


## Lighter Cords, Lighter tires

Twixtra® with light cord design reveals high modulus and high impact absorption capability. Compared to conventional cap ply material, Twixtra® LD will perform better

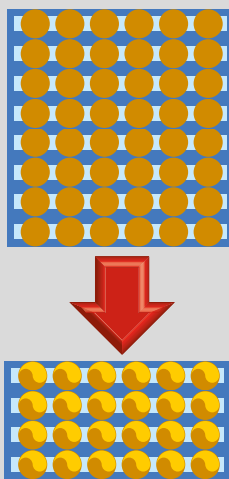
	Shrinkage @177°C [%]	Tenacity [cN/dtex]	Diameter [mm]
Nylon6.6 940x2	6.0	77	0.55
Twixtra LD Nylon6.6+Aramid	1.8	115	0.38

### Tensile Strength

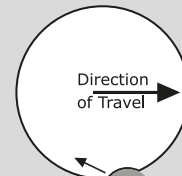
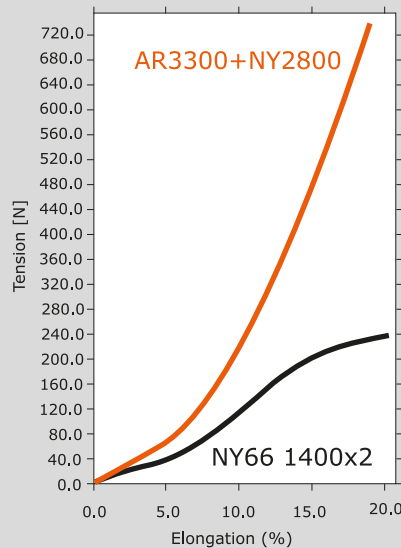


## Bigger Tires, bigger cords!

Twixtra® with heavier cord constructions will enable layer reduction for various tire types.



### Tensile Strength



High breaking strength cords design with high elongation at break, improves impact absorption capability of tires under challenging conditions.

## Tire protection

Twixtra® will enhance cut resistant property in AR/NY hybrid cords as aramid has higher cut resistance than multifilament Nylon6.6

Visit <http://www.kordsa.com/twixtra/> to learn more.

For further information please contact us at [market.development@kordsa.com](mailto:market.development@kordsa.com)