













Monolyx® is a multi-ply monofilament cord made of synthetic monofilament fibers with 3-7 plies for tire reinforcement. Each ply has a round shapes cross-section with minimum 0.23mm and maximum 0.50mm thickness or minimum 460 dtex and maximum 2200 dtex. The properties of the cords are adjusted by changing the ply thickness and ply number within the available products range and structure of the cords are varied between 0,23mm - 0,50mm ply thickness and by number of plies from 3 to 7.



	 Performance	 Corrosion Protection	 Cut Resistant	 Low Weight	 Cost Optimization	 Rolling Resistance
 UHP & SUV	✓					
 Aircraft Tires Belt			✓		✓	
 Truck Radial Belt		✓		✓		✓
 Forestry & Agro Tires Belt & Carcass			✓		✓	

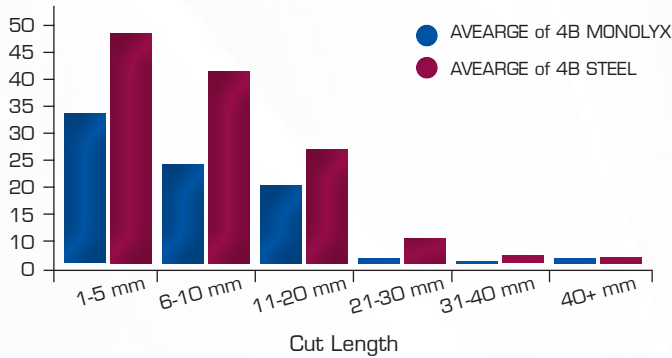
Protective Tire Shield for TBR

Proven cut through reduction during damper truck service by improved impact absorption.

Reinforcing steel belt layers are protected from cut throughs by 4th belt layer replacement with Monolix, thanks to better energy absorption and high bending stiffness features of Monolix. In case of cuts corrosion is avoided due to polymeric material (NY66).

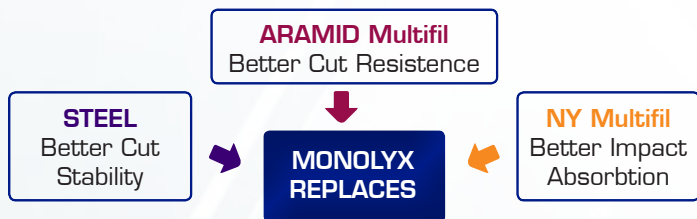


of Cuts under TREAD



Protective Tire Shield for Heavy Duty Bias Tires

Monolix improves safety and service durability for Aircraft, OTR, Forestry tires. Monolix, as a breaker/belt application, creates perfect solution where you need light weight cut protection with impressive fatigue property.



Transition Layer for TBR

Replacement of transition layer with Monolix improves rolling resistance.

Karting Tires Carcass

As a carcass material, Monolix responds cornering and is perfect for faster time laps due to high bending stiffness.

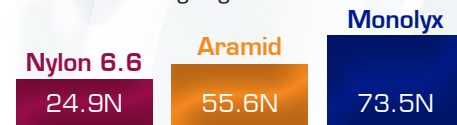
Alternatives for Cap Ply

	470*3 NY6.6 monofilament	810*3 NY6.6 monofilament	940*2 NY6.6 Multifilament
Elongation at 4.5 kg (%)	7,65	5,24	8,0
Load at 5% (kg)	2,38	4,24	2,37
Thickness (mm)	0,44	0,56	0,56
Shrinkage (%)	5,4	4,7	4,2
H-adhesion (kgf)	11,0	17,1	11,2

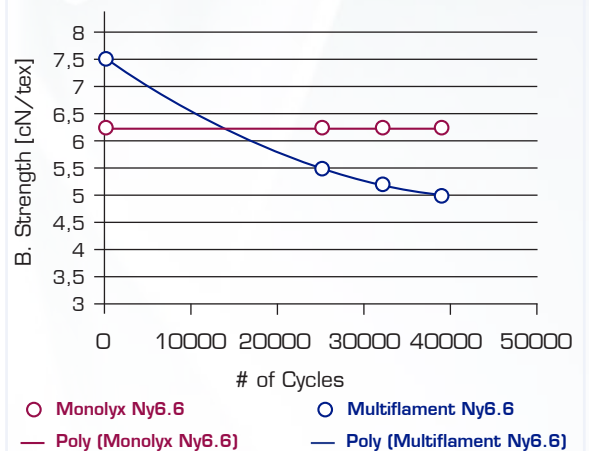
For further information please contact us at market.
development@kordsa.com

Cut Resistance

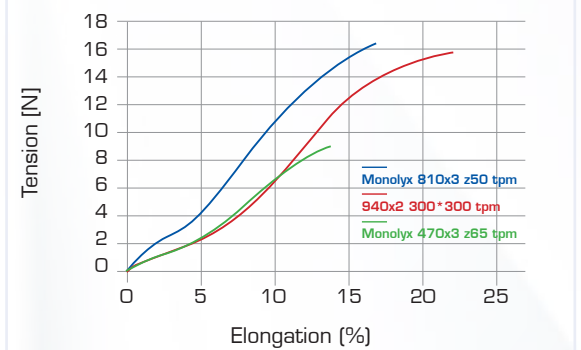
1.0 mm cord gauge ISO: 13977:1999



B. Strength Retention



Tensile Strength



Bending Stiffness

