

## POLYESTER CONVEYOR BELT

Polyester conveyor belts, also called EP conveyor belts, whose tension resistant body is canvas woven by polyester in warp and polyamide in weft. The belts have the characteristics of low elongation in warp and good trough ability in weft, good water resistant, good wet strength, no mould it is suitable for medium, long distance and heavy load transportation of materials. Because of the high initial modulus of polyester, the belts can choose a relative low safety factor.

Specification and technical data of multi-ply polyester conveyor belt

Fabric type	Fabric structure		Fabric specs	Ply thickness mm/ply	Strength (N/mm)				Cover thickness		width mm	length m
	warp	weft			2ply	3ply	4ply	5ply	upper	lower		
polyester	polyester	polyamide	EP80		160	240	320	400	1.5-12	0-4.5	400-2500	50-500
			EP100	1	200	300	400	500				
			EP150	1.1	300	450	600	750				
			EP200	1.2	400	600	800	1000			500-2500	
			EP250	1.35	500	750	1000	1250				
			EP300	1.45	600	900	1200	1500				
			EP350	1.6		1050	1400	1750			800-2500	
			EP400	1.75			1600	2000			1000-2500	
			EP500	1.9			2000	2500				
EP630	2.1			2400	3000							

Adhesion and elongation of belt

Belt carcass	Adhesive strength		elongation	
	Between plies (N/mm)	Between rubber and carcass	Longitudinal elongation at break % $\geq$	Longitudinal elongation at reference load % $\leq$
EP canvas	$\geq 5$	$\geq 5$	10	2.0

Technical data of cover rubber

Cover grade	Tensile strength	Elongation	Abrasion	Change rate of tensile strength and elongation after aging
	$\geq$ MPa	$\geq$ %	$\leq$ mm <sup>3</sup>	
RMA1	17	400	175	-25~+25
RMA2	14	350	250	-25~+25
Z	15	350	250	-25~+25
Y	20	400	150	-25~+25
X	25	400	120	-25~+25
W	18	400	90	-25~+25