

Laboratory Phoenix Conveyer Belt India (P) Limited, Finished Product Testing Laboratory, Muragacha Road, P.O. Gayeshpur, Kalyani, Dist. Nadia, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7955 (in lieu of T-1825)

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Validity 20.11.2018 to 19.11.2020

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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MECHANICAL TESTING

I.	AUTOMOTIVE COMPONENTS				
1.	Textile Conveyer Belt	Belt dimension	ISO14890:2013/ IS1891 (Part-1 Annex C)- 1994/2005/ AS1334.2-1982 (RA 2016)		
		Belt width		550 mm to 2400 mm	
		Top cover thickness		1 mm to 20 mm	
		Bottom cover thickness	1 mm to 20 mm		
		Full belt tensile strength	ISO14890:2013) / IS1891(Part-1)Annex F)- 1994/Reaffirmed 2005/ AS 1334.3-1982 (RA 2016)		
		Breaking force,			
		Warp direction		25.0 N/mm to 3137.2 N/mm	
		Weft direction		25.0 N/mm to 3137.2 N/mm	
		Elongation at break			
		Warp direction		0.5% to 50.0 %	
		Elongation at ref. load (10 % FB min)	0.5% to 50.0 %		
		Peel Adhesion strength	ISO 252-2007 / IS1891(Part-1 Annex G): 1994 /2005/ AS 1334.7:1982 (RA 2016)		
		Top cover to fabric ply		8.0 N/mm to 60.0 N/mm	
		Between fabric ply		8.0 N/mm to 60.0 N/mm	
		Bottom cover to fabric ply	8.0 N/mm to 60.0 N/mm		
		Cover rubber :	ISO 37-2011 IS3400(Part-1):2012 /AS 1683.11:2001		
		Tensile strength		5 N/mm ² to 35.0 N/mm ²	
		Elongation at Break	20% to 1100 %		
		Tensile strength (at 70°C for 3 d)	ISO 3400(Part-4):2012/ AS 1683.26:2001		
		Elongation at Break (at 70°C for 3 d)		5 N/mm ² to 35.0 N/mm ²	
		20% to 1100 %			

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Hardness	AS 1683.15.2:1990	10 Shore A to 90 Shore A
		Abrasion	ISO4649-2010/ IS3400 (Part-3):2003/ AS1683.21:1982	40 mm ³ to 300 mm ³
		Tear strength (top cover & bottom cover rubber)	ISO 34-1/2015/ ASTM D624:2012	4 N/mm to 150 N/mm
		Troughability	ISO703:2017/ IS1891(Part1AnnexH:1994/ 2005/ AS1334.4:1982 (RA 2016)	0.05 to 0.6
		Flame Test	CSA M422:2014	1 sec to 60 sec
2.	Steel cord conveyor belt	Belt dimension	DIN EN ISO 15236-1:2017/ IS15143:2002Annex-A&B (IS15427:2004)/	
		Belt width	AS1333 Appendix-E:1994 Amdt-2000	850 mm to 2400 mm
		Top cover thickness		1 mm to 20 mm
		Bottom cover thickness		1 mm to 20 mm
		Steel Cords	DIN EN ISO 15236-1:2017/ IS15143:2002Annex-C (IS15427:2004)/	
		No of cords	AS1333 Appendix-C:1994 Amdt-2000	39 to 196
		Diameter of cords		2.8 mm to 11.6 mm
		Peel Adhesion strength	ISO 8094:2013/ IS 15143:2002 Annex-G (IS15427:2004) /	
		Top cover to bonding rubber	AS 1333-Appendix J:1994 Amdt-2000	8 N/mm to 70.0 N/mm
		Bottom cover to bonding rubber		8 N/mm to 70.0 N/mm
		Cover rubber	ISO 37-2011 /	5 N/mm ² to 35.0 N/mm ²

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		Tensile strength	IS 15143:2002 Annex. H (IS 15427:2004)/ AS 1683.11:2001	20 to 1100 %
		Elongation at Break		
		Tensile strength (at 70°C for 7 d)	IS 3400 (Part-4):2012 / AS 1683.26:2001	5 to 35 N/mm ²
		Elongation at Break (at 70°C for 7 d)		20% to 1100 %
		Hardness	AS 1683.15.2:1990	10 Shore A to 90 Shore A
		Abrasion	ISO 4649-2010 / IS 3400 (Part-3):2003 / AS 1683.21:1982	40 mm ³ to 300 mm ³
		Tear strength (top cover & bottom cover rubber)	ISO 34-1/2015 / ASTM D624:2012	4 N/mm to 150 N/mm
		Troughability	ISO 703:2017/ IS 1891 (Part-1) Annex-H: 1994/2005/ AS 1334.4-1982 (RA 2016)	0.05 to 0.6
		Cord to coating bond Strength Cord pullout strength, N/mm After thermal treatment, (145 C@150min, N/mm)	ISO 7623:2015/ IS15143:2002 Annex-F (IS15427:2004)/ AS 1333 Appendix-I:1994	20 N/mm to 300 N/mm 20 N/mm to 300 N/mm