Laboratory	Forech India Private Limited, 1, SIPCOT Industrial Park, Village Mathur-Mangal, Post Cholavaram, Taluk Cheyyar, Distt. Thiruvannamalai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2017		
Certificate Number	TC-5174	Page 1 of 3	
Validity	14.06.2019 to 20.04.2020	Last Amended on	
SI. Product / Material	Specific Test Performed Test Me	thod Specification Range of Testing /	

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

MECHANICAL TESTING

I.	RUBBER AND RUBBER PRODUCTS					
1.	Rubber Conveyer Belt with Steel Cord Reinforcement	Mechanical Tests				
		Cord Pull Out Force	ISO 7623; IS 15143;	20 kN/m to 500 kN/m		
		(Cord to coating bond test)	AS 1333; SANS 1366			
		Cord Pull Out Force				
	Full Belt	(After thermal treatment at 145° C for 150 minute)				
		Adhesion Strength of	ISO 8094; ISO 36;	1.5 kN/m to 80.0kN/m		
		cover to core layer	IS 15143; AS 1333; SANS 1366			
		Dynamic cord pullout Fatigue Resistance	AS 1333; IS 15143; SANS 1366	1 Cycles to 60000 Cycles		
		Troughabillity	EN ISO 703; IS15143; AS 1334; SANS1366	0.08 to 0.80		
		Ageing Resistance of Adhesion Strength	IS 3400 Part-4; ISO 4195	50 °C to 200 °C		
		Fire Resistance Properties				
		Flammability Test	ISO 340; CSA M 422; IS 15143; AS 1334.10; SANS 971	1 s to 45.0 s		
		Electrical Surface Resistance Test	ISO 284; CSA M422-14; IS 15143; AS 1334.9; SANS 971	0 MΩ to 300 MΩ		
		Drum Friction Test	CSA M422-14; IS 15143; AS 1334.11; SANS 971	25°C to 700°C		
2.	Cover Rubber	Cover Rubber Tensile Strength	ISO 37; IS 3400 Part-1; AS 1683.11; SANS 23529; DIN 53504	4 Mpa to 30MPa		
		Cover Rubber Elongation	ISO 37; IS 3400 Part-1;	100% to 1000%		

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		at Break	AS 1683.11; SANS 23529; DIN 53504	
		Ageing Resistance of Cover Rubber	IS 3400 Part-4; ISO 4195	50°C to 200 °C
		Cover Rubber Hardness (Shore-A)	ASTM D 2240; ISO 7619-1	10 Shore ⁰ A to 100 Shore ⁰ A
		Cover Rubber Abrasion Resistance	ISO 4649; IS 3400 Part-3; AS 1683.21; SANS 4649	20 mm ³ to 500 mm ³
3.	Full Belt	Full Thickness Breaking Strength - Longitudinal direction	IS 1891 Part-1; ISO 283-1; DIN 22102 Part-1; AS 1334.3; SANS 10037	
		Full Thickness Breaking Strength - Transverse direction	IS 1891 Part- 1; ISO283-1	10 kN/m to 1800 kN/m
		Elongation at reference load	IS 1891 Part-1; ISO283-1; DIN 22102 Part-1; AS 1334.3 SANS 10037	0.5% to 4.0%
		Elongation at break load	IS 1891 Part-1; ISO283-1; DIN 22102 Part-1; AS 1334.3 SANS 10037	0.5% to 400%
		Troughabillity	IS 1891 Part-1; ISO 703-1; AS 1334.4; SANS 1173	0.05 to 0.80
		Adhesion Strength		
		Top Cover to Ply	IS 1891 Part-1; ISO 252; AS 1334.7; SANS 1173	1.5 kN/m to 90kN/m
		Bottom Cover to Ply	IS 1891 Part-1; ISO 252; AS 1334.7; SANS 1173	1.5 kN/m to 90kN/m
		Ply-Ply	IS 1891 Part-1; ISO 252; AS 1334.7; SANS 1173	1.5 kN/m to 90kN/m
		Ageing Resistance of Adhesion Strength	IS 3400 Part- 4; ISO 4195	50°C to 200 °C
		Fire Resistance Propertie		
		Flammability Test	ISO 340 ; IS 1891Part-5; CSA M 422-14;	1 s to 45.0 s

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			AS 1334.10; SANS 971	
		Electrical Surface	IS 1891 Part- 5	0 MΩ to 300 MΩ
		Resistance Test	CSA M422-14;	
			AS 1334.9; SANS 971	
		Drum Friction Test	IS 1891 Part- 5	25°C to 700°C
			CSA M422-14;	
			AS 1334.11; SANS 971	
4.	Cover Rubber	Cover Rubber Tensile	ISO 37; IS 3400 Part-1;	4 Mpa to 30MPa
		Strength	AS 1683.11;	
			SANS 23529; DIN 53504	
		Cover Rubber Elongation	ISO 37; IS 3400 Part-1;	100% to 1000%
		at Break	AS 1683.11; SANS 23529;	
			DIN 53504	
		Ageing Resistance of	IS 3400 Part- 4;	50°C to 200°C
		Cover Rubber	ISO4195	
		Cover Rubber Hardness	ASTM D 2240-5;	10 Shore ⁰ A to
		(Shore-A)	ISO 7619-1	100 Shore ⁰ A
		Cover Rubber Abrasion	ISO 4649; IS 3400 Part-3;	20 mm ³ to 500 mm ³
		Resistance	AS 1683.21; SANS 4649	
5.	Rubber Sheet	Tensile Strength	ISO 37; IS 3400 Part-1;	4 Mpa to 30MPa
			AS 1683.11; SANS 23529;	
		Elegentian et Dreek	DIN 53504	40000 += 400000
		Elongation at Break	ISO 37; IS 3400 Part-1;	100% to 1000%
			AS 1683.11;	
			SANS 23529; DIN 53504	10 Shore ⁰ A to
		Hardness (Shore-A)	ASTM D 2240-5; ISO 7619-1	10 Shore ^o A to
		Abragian Desistance		20 mm ³ to 500 mm ³
		Abrasion Resistance	ISO 4649; IS 3400 Part-3; AS 1683.21; SANS 4649	
		Specific Crowity		0.6 to 2.0
		Specific Gravity	IS 3400 Part- 9; ISO: 2781	0.6 to 3.0
		Tear Strength (Angular)	IS 3400 Part-17;	5 N/mm to 300 N/mm
		Tear Strength (Crescent)	ISO 34-1	