



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name RAMCHARAN COMPANY PVT LTD - LABORATORY, 5/6 B2, AVADI ROAD,
SENNEERKUPPAM, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-8268 Page No. : 1 / 8

Validity 10/01/2019 to 09/01/2021 Last Amended on -

'In view of the transition deadline for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020.'

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Abrasion Loss	ASTM D 5963: 2015	10 mm ³ to 600 mm ³
2	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Abrasion Loss	ISO 4649: 2017	10 mm ³ to 600 mm ³
3	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Abrasion Loss	IS 3400 (Part-3): 2008	10 mm ³ to 600 mm ³
4	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Abrasion resistance Index	ISO 4659: 2017	10 index to 500 index
5	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Abrasion resistance Index	ASTM D 5963: 2015	10 index to 500 index
6	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Abrasion resistance Index	IS 3400 (Part-3): 2008	10 index to 500 index
7	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Durometer Hardness	IS 3400(Part 23): 2018	10 Shore A to 95 Shore A
8	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Durometer Hardness	ASTM D 2240: 2015	10 Shore A to 95 Shore A
9	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Durometer Hardness	ISO 7619-2: 2011	10 Shore A to 95 Shore A



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
10	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Durometer Hardness	IS 3400(Part 23): 2018	10 Shore A to 95 Shore A
11	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Durometer Hardness	ASTM D 2240: 2015	10 Shore A to 95 Shore A
12	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Durometer Hardness	ISO 7619-2: 2011	10 Shore A to 95 Shore A
13	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Elongation at Break	IS 3400(Part 1): 2012	10 % to 1100 %
14	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Elongation at Break	ISO 37: 2011	10 % to 1100 %
15	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Elongation at Break	ASTM D 412: 2016	10 % to 1100 %
16	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Elongation at Break	IS 3400(Part 1): 2012	10 % to 1100 %
17	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Elongation at Break	ISO 37: 2011	10 % to 1100 %
18	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Elongation at Break	ASTM D 412: 2016	10 % to 1100 %



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19	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 100%	ASTM D 412: 2016	0.5 MPa to 100 MPa
20	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 100%	ISO 37: 2011	0.5 MPa to 100 MPa
21	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 100%	IS 3400(Part 1): 2012	0.5 MPa to 100 MPa
22	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 100%	ASTM D 412: 2016	0.5 MPa to 100 MPa
23	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 100%	ISO 37: 2011	0.5 MPa to 100 MPa
24	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 100%	IS 3400(Part 1): 2012	0.5 MPa to 100 MPa
25	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 200%	ASTM D 412: 2016	0.5 MPa to 100 MPa
26	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 200%	IS 3400(Part 1): 2012	0.5 MPa to 100 MPa
27	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 200%	ISO 37: 2011	0.5 MPa to 100 MPa



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28	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 200%	ASTM D 412: 2016	0.5 MPa to 100 MPa
29	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 200%	IS 3400(Part 1): 2012	0.5 MPa to 100 MPa
30	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 200%	ISO 37: 2011	0.5 MPa to 100 MPa
31	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 300%	IS 3400(Part 1): 2012	0.5 MPa to 100 MPa
32	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 300%	ISO 37: 2011	0.5 MPa to 100 MPa
33	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 300%	ASTM D 412: 2016	0.5 MPa to 100 MPa
34	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 300%	IS 3400(Part 1): 2012	0.5 MPa to 100 MPa
35	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 300%	ISO 37: 2011	0.5 MPa to 100 MPa
36	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Modulus at 300%	ASTM D 412: 2016	0.5 MPa to 100 MPa



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37	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Tear Strength	ASTM D 624: 2012	1 N/mm to 200 N/mm
38	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Tear Strength	IS 3400(Part 17): 2003	1 N/mm to 200 N/mm
39	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Tear Strength	ISO 34-1: 2015	1 N/mm to 200 N/mm
40	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Tensile Strength	IS 3400(Part 1): 2012	1 MPa to 100 MPa
41	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Tensile Strength	ASTM D 412: 2016	1 MPa to 100 MPa
42	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Tensile Strength	ISO 37: 2011	1 MPa to 100 MPa
43	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Tensile Strength	IS 3400(Part 1): 2012	1 MPa to 100 MPa
44	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Tensile Strength	ASTM D 412: 2016	1 MPa to 100 MPa
45	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber and Products, Synthetic Rubber and Products	Tensile Strength	ISO 37: 2011	1 MPa to 100 MPa



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46	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Mooney Scorch	ASTM D 1646-07: 2012	0.1 min to 60 min
47	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Mooney Scorch	ASTM D 1646-07: 2012	0.1 min to 60 min
48	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Mooney Viscosity	ISO 289-1: 2015	1 MU to 200 MU
49	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Mooney Viscosity	IS 11720 (Part -3): 2008	1 MU to 200 MU
50	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Mooney Viscosity	ASTM D 1646: 2017	1 MU to 200 MU
51	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Vulcanisation Properties (By Rheometer-Oscillating Disc Rheometer)a) Torque (max) - MH	ISO 3417: 2008	1 lb.in to 200 lb.in
52	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Vulcanisation Properties (By Rheometer-Oscillating Disc Rheometer)a) Torque (max) - MH	IS 11720 (Part-2): 2005	1 lb.in to 200 lb.in
53	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Vulcanisation Properties (By Rheometer-Oscillating Disc Rheometer)a) Torque (max) - MH	ASTM D 2084: 2017	1 lb.in to 200 lb.in



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54	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Vulcanisation Properties (By Rheometer-Oscillating Disc Rheometer)b) Torque (min) - ML	ASTM D 2084: 2017	1 lb.in to 100 lb.in
55	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Vulcanisation Properties (By Rheometer-Oscillating Disc Rheometer)b) Torque (min) - ML	ISO 3417: 2008	1 lb.in to 100 lb.in
56	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Vulcanisation Properties (By Rheometer-Oscillating Disc Rheometer)b) Torque (min) - ML	IS 11720 (Part-2): 2005	1 lb.in to 100 lb.in
57	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Vulcanisation Properties (By Rheometer-Oscillating Disc Rheometer)c) Optimum Cure Time - Tc'90	ISO 3417: 2008	0.1 min to 60 min
58	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Vulcanisation Properties (By Rheometer-Oscillating Disc Rheometer)c) Optimum Cure Time - Tc'90	IS 17720 (Part-2): 2005	0.1 min to 60 min



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
59	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Vulcanisation Properties (By Rheometer-Oscillating Disc Rheometer)c) Optimum Cure Time - Tc'90	ASTM D 2084: 2017	0.1 min to 60 min
60	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Vulcanisation Properties (By Rheometer-Oscillating Disc Rheometer)d) Scorch Time - TS2	ASTM D 2084: 2017	0.1 min to 60 min
61	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Vulcanisation Properties (By Rheometer-Oscillating Disc Rheometer)d) Scorch Time - TS2	ISO 3417: 2008	0.1 min to 60 min
62	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw rubber/ Ingredient/ Compound products	Vulcanisation Properties (By Rheometer-Oscillating Disc Rheometer)d) Scorch Time - TS2	IS 11720 (Part-2): 2005	0.1 min to 60 min