National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RESEARCH AND TESTING LABORATORY, ZENITH INDUSTRIAL RUBBER PRODUCTS PVT. LTD., PLOT NO. D-2, PHASE-I, M.I.D.C, INDUSTRIAL ESTATE, DOMBIVLI-EAST, THANE, MAHARASHTRA, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural Rubber, Synthetic Rubber & Rubber Products	Identification of Rubber Polymers by Chemical Mmethod	ASTM D297 (Appendix X2)
2	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural Rubber, Synthetic Rubber, Rubber Compound, Rubber Vulcanizates, Rubber Products	Ash Content of Raw Rubber, Rubber Vulcanizate and Rubber Chemical	ASTM D297 (Section 35)
3	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Abrasion Resistance (Dry and Wet) ARI	ASTM D5963
4	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Abrasion Resistance (Dry and Wet) ARI	IS 3400 (Part 3)
5	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Abrasion Resistance (Dry and Wet) RVL	ASTM D5963
6	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Abrasion Resistance (Dry and Wet) RVL	IS 3400 (Part 3)
7	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Accelerated Thermal Ageing-Change in Elongation at Break	ASTM D573
8	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Accelerated Thermal Ageing-Change in Elongation at Break	BS ISO 188
9	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Accelerated Thermal Ageing-Change in Elongation at Break	IS 3400 (Part 4)
10	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Accelerated Thermal Ageing-Change in Hardness	ASTM D573
11	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Accelerated Thermal Ageing-Change in Hardness	BS ISO 188
12	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Accelerated Thermal Ageing-Change in Tensile Strength	ASTM D573
13	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Accelerated Thermal Ageing-Change in Tensile Strength	BS ISO 188
14	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Accelerated Thermal Ageing-Change in Tensile Strength	IS 3400 (Part 4)
15	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Compression Set (Method B under Constant Strain)	ASTM D395
16	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Compression Set (Method B under Constant Strain)	IS 3400 (Part 10, Section 1)
17	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Effect of Liquids (Swelling Test) Determination of Change in Elongation at Break	IS 3400 (Part 6)

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18	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Effect of Liquids (Swelling Test) Determination of Change in Hardness	ASTM D471
19	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Effect of Liquids (Swelling Test) Determination of Change in Hardness	IS 3400 (Part 6)
20	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Effect of Liquids (Swelling Test) Determination of Change in Length	IS 3400 (Part 6)
21	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Effect of Liquids (Swelling Test) Determination of Change in Mass	ASTM D471
22	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Effect of Liquids (Swelling Test) Determination of Change in Mass	IS 3400 (Part 6)
23	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Effect of Liquids (Swelling Test) Determination of Change in Tensile Strength	ASTM D471
24	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Effect of Liquids (Swelling Test) Determination of Change in Tensile Strength	IS 3400 (Part 6)
25	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Effect of Liquids (Swelling Test) Determination of Change in Thickness	IS 3400 (Part 6)
26	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Effect of Liquids (Swelling Test) Determination of change in Volume	ASTM D471
27	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Effect of Liquids (Swelling Test) Determination of Change in Volume	IS 3400 (Part 6)
28	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Effect of Liquids (Swelling Test) Determination of Change in Width	IS 3400 (Part 6)
29	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Effect of Liquids (Swelling Test) Determination of Change in Elongation	ASTM D471
30	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Elongation at Break	ASTM D412
31	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Elongation at Break	BS ISO 37

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32	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Elongation at Break	IS 3400 (Part 1)
33	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Hardness	ASTM D2240
34	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Hardness	BS ISO 48-4
35	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Hardness	IS 3400 (Part 2)
36	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Modulus at 100% Elongation	ASTM D412
37	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Modulus at 100% Elongation	BS ISO 37
38	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Modulus at 100% Elongation	IS 3400 (Part 1)
39	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Modulus at 200% Elongation	ASTM D412
40	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Modulus at 200% Elongation	BS ISO 37
41	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Modulus at 200% Elongation	IS 3400 (Part 1)
42	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Modulus at 300% Elongation	ASTM D412
43	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Modulus at 300% Elongation	BS ISO 37
44	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Modulus at 300% Elongation	IS 3400 (Part 1)
45	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Resilience by Vertical Rebound Method	ASTM D2632
46	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Resilience by Vertical Rebound Method	IS 3400 (Part 11)
47	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Specific Gravity	ASTM D792
48	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Specific Gravity	BS ISO 2781
49	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Specific Gravity	IS 3400 (Part 9)
50	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Tear Strength	ASTM D624

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51	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Tear Strength	BS ISO 34- 1
52	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Tear Strength	IS 3400 (Part 17)
53	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Tensile Strength	ASTM D412
54	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Tensile Strength	BS ISO 37
55	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber & Synthetic Rubber Products	Tensile Strength	IS 3400 (Part 1)
56	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural Rubber, Synthetic Rubber & Rubber Products	Accelerated Thermal Ageing-Change in Hardness	IS 3400 (Part 4)
57	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Material/ Ingredients/ Compound Products	Vulcanizing Properties by using D-RPA Minimum Torque, ML	ASTM D5289
58	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Material/ Ingredients/ Compound Products	Vulcanizing Properties by using D-RPA Optimum Cure Time, tc90	ASTM D5289
59	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Material/ Ingredients/ Compound Products	Vulcanizing Properties by using D-RPA Optimum Cure Time, tc90	ISO 6502-3
60	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Material/ Ingredients/ Compound Products	Vulcanizing Properties by using D-RPA Scorch Time, ts2	ASTM D5289
61	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Material/ Ingredients/ Compound Products	Vulcanizing Properties by using D-RPA Scorch Time, ts2	ISO 6502-3
62	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Material/ Ingredients/ Compound Products	Vulcanizing Properties by using D-RPA, Maximum Torque, MH	ASTM D5289
63	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Material/ Ingredients/ Compound Products	Vulcanizing Properties by using D-RPA, Maximum Torque, MH	ISO 6502-3
64	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Material/ Ingredients/ Compound Products	Vulcanizing Properties by using D-RPA, Minimum Torque, ML	ISO 6502-3
65	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Rubber (Natural and Synthetics Rubber) & Rubber Compounds	Dynamic Properties (S', S", S*, G', G", G*, Tan d) of Raw & Compounded Rubber using D-RPA): Loss Shear Modulus	ASTM D6204
66	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Rubber (Natural and Synthetics Rubber) & Rubber Compounds	Dynamic Properties (S', S", S*, G', G", G*, Tan d) of Raw & Compounded Rubber using D-RPA): Tan Delta	ASTM D6204

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67	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Rubber (Natural and Synthetics Rubber) & Rubber Compounds	Dynamic Properties (S', S", S*, G', G", G*, Tan d) of Raw & Compounded Rubber using D-RPA): Tan Delta	ASTM D6601
68	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Rubber (Natural and Synthetics Rubber) & Rubber Compounds	Dynamic Properties (S', S", S*, G', G", G*, Tan d) of Raw & Compounded Rubber using D-RPA): Loss Shear Modulus	ASTM D6601
69	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Rubber (Natural and Synthetics Rubber) & Rubber Compounds	Dynamic Properties (S', S", S*, G', G", G*, Tan d) of Raw & Compounded Rubber using D-RPA): Storage Shear Modulus	ASTM D6204
70	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Rubber (Natural and Synthetics Rubber) & Rubber Compounds	Dynamic Properties (S', S", S*, G', G", G*, Tan d) of Raw & Compounded Rubber using D-RPA): Storage Shear Modulus	ASTM D6601
71	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Rubber (Natural and Synthetics Rubber) & Rubber Compounds	Mooney Viscosity	ASTM D1646
72	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Rubber (Natural and Synthetics Rubber) & Rubber Compounds	Mooney Viscosity	ISO 289-1
73	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Rubber (Natural Rubber) & Rubber Compounds	Mooney Viscosity	IS 3660 (Part 7)
74	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Raw Rubber (Synthetics Rubber) & Rubber Compounds	Mooney Viscosity	IS 11720 (Part 3)