National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TECHNOLOGY LABORATORY OF BIRLA CARBON INDIA PRIVATE LIMITED, ADITYA BIRLA FUNDAMENTAL RESEARCH INSTITUTE, BLOCK- NA1, PLOT NO. 1 & 1-A/1, MIDC TALOJA, PANVEL, RAIGAD, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6401 **Page No** 1 of 2

Validity 28/01/2023 to 27/01/2025 **Last Amended on** -

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	Carbon Black	Ash Content	ASTM D 1506
2	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black	Heating Loss	ASTM D 1509-18, Method A &B
3	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black	Iodine Adsorption Number	ASTM D1510-21 (Method A)
4	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black	Oil Adsorption Number of compressed Sample(COAN)	ASTM D 3493
5	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black	Oil Adsorption Number(OAN)	ASTM D 2414
6	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black	pH Value	ASTM D 1512, Method A
7	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black	Sieve Residue (Sieve size: 45 Micron)	ASTM D 1514
8	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black	Tint Strength	ASTM D 3265
9	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black	Total and External Surface Area by Nitrogen Adsorption	ASTM D 6556
10	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black	Transmittance of Toluene Extract	ASTM D 1618-18
11	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black Feedstock	API Gravity of Liquids by Digital Density Meter	ASTM D 4052
12	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black Feedstock	Ash from Petroleum Products	ASTM D 482
13	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black Feedstock	Carbon Residue (Micro Method)	ASTM D 4530
14	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black Feedstock	Pour Point	ASTM D 97
15	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black Feedstock	Relative Density of Liquids by Digital Density Meter	ASTM D 4052
16	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black Feedstock Oil	Density of Liquids by Digital Density Meter	ASTM D 4052
17	CHEMICAL- RUBBER & RUBBER PRODUCTS	Carbon Black Feedstock Oil	Saybolt Viscosity	ASTM D 88
18	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Filled Elastomeric Compounds	Mooney Scorch t35	ASTM D1646 (Part C)

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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
19	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Filled Elastomeric Compounds	Mooney Scorch t5	ASTM D1646 (Part C)
20	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Filled Elastomeric Compounds	Mooney Viscosity ML1+4	ASTM D1646-19 (Part A)
21	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Filled Elastomeric Compounds	Vulcanization Using Rotorless Cure meters ML- Minimum S' torque	ASTM D5289-19
22	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Filled Elastomeric Compounds	Vulcanization Using Rotorless Cure meters ts2- Scorch time to an increase of 2 unit of S' torque from the ML value	ASTM D5289-19
23	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Filled Elastomeric Compounds	Vulcanization Using Rotorless Cure meters MH- Maximum S' torque	ASTM D5289-19
24	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber and Filled Elastomeric Compounds	Vulcanization Using Rotorless Cure meters TC90 - Time to 90% of S' torque increase	ASTM D5289-19
25	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Vulcanized Rubber (Natural, Synthetic or Blend of two)	Durometer Hardness (Shore A)	ASTM D2240-15
26	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Vulcanized Rubber (Natural, Synthetic or Blend of two)	International Hardness (IRHD)	ASTM D1415-18
27	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Vulcanized Rubber (Natural, Synthetic or Blend of two)	Rebound Resilience	ASTM D7121-05
28	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Vulcanized Rubber (Natural, Synthetic or Blend of two)	Tear Strength	ASTM D624-00 (Type C: Right Angle Test piece)
29	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Vulcanized Rubber (Natural, Synthetic or Blend of two)	Tensile Strength	ASTM D412-16 (Method A: Dumbell & Straight Specimen)
30	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Vulcanized Rubber (Natural, Synthetic or Blend of two)	Tensile Test - Tensile Stress at 100% Elongation	ASTM D412-16 (Method A: Dumbell & Straight Specimen)
31	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Vulcanized Rubber (Natural, Synthetic or Blend of two)	Tensile Test - Tensile Stress at 300% Elongation	ASTM D412-16 (Method A: Dumbell & Straight Specimen)
32	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Vulcanized Rubber (Natural, Synthetic or Blend of two)	Tensile Test - Ultimate Elongation	ASTM D412-16 (Method A: Dumbell & Straight Specimen)