National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ANALYTICAL TECHNOLOGY LAB, SABIC RESEARCH AND TECHNOLOGY PVT. LTD., PLOT NO. 81 TO 85, CHIKKADUNNASANDRA VILLAGE ANEKAL TALUK, OFF SARJAPURA, ATTIBELE STATE HIGHWAY, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 04/01/2022 to 03/01/2024 **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- PLASTIC & RESINS	Plastic & Resins	Color Tolerances, Color Differences (Instrumentally Measured Color Coordinates)	ASTM D2244
2	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Accelerated Exposure of Automotive for Xenon-Arc (Exterior Materials using a Controlled Irradiance)	SAE J2527
3	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Accelerated Exposure of Automotive Interior Trim (Controlled Irradiance Xenon-Arc)	SAE J2412
4	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Colour	ISO 105- A02:1993/Cor 2
5	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Exposure of Non-Metallic Materials (for operating Fluorescent Ultraviolet Lamp)	ASTM G154
6	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Exposure of Non-Metallic Materials (for Operating Xenon Arc Light)	ASTM G155
7	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Exposure of Plastics for Xenon-Arc (Intended for Indoor Applications)	ASTM D4459
8	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Exposure to Light Sources (Fluorescent UV Lamps)	ISO 4892-3 (Part 3)
9	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Exposure to Light Sources (Xenon-arc Lamps)	ISO 4892-2
10	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Haze of Transparent Plastics	ASTM D1003
11	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Maximum Extractable Fraction (in n-hexane)	21 CFR 177.1520 (c) 3.1a, 21 CFR 177.1520 (c) 1.1a
12	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Maximum Soluble Fraction (in Xylene)	21 CFR 177.1520 (c) 3.1a, 21 CFR 177.1520 (c) 1.1a
13	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Overall Migration (in Olive Oil)	NEN-EN 1186-2 (by Total Immersion) NENEN 1186-10 (by Total Immersion)
14	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Overall Migration (into Aqueous Acidic Food Stimulants)	NEN-EN 1186-3 (Total Immersion Method: Method A)
15	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Overall Migration (into Aqueous Alcoholic Food Stimulants)	NEN-EN 1186- 3 (Total Immersion Method: Method A)

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16	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Resistance of Plastics to Chemicals	ASTM D543
17	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Specular Gloss	ASTM D523
18	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Stress Cracking (Resistance to Environmental)	ISO 22088 (Part 3)
19	CHEMICAL- PLASTIC & RESINS	Plastic & Resins	Transmittance of Transparent Plastics	ASTM D1003
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Materials (Tests after UV Exposure and Water Exposure)	Tensile Strength	UL 746C
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Flammability	UL 746A
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Flammability	UL 746B
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Tensile Strength	UL 746B
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Charpy Impact Strength	UL 746A
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Charpy Impact Strength	UL 746B
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Dielectric Breakdown Voltage and Dielectric Strength	ASTM D149
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Dielectric Strength	UL 746A
28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Flammability (VTM-Series, V-Series, 5VA, 5VB, HB)	UL 94
29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Izod Impact Strength	UL 746A
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Izod Impact Strength	UL 746B

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31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Oxygen Index	ASTM D2863
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Oxygen Index	ISO 4589-2
33	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Tensile Impact Strength	UL 746A
34	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Tensile Impact Strength	UL 746B
35	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials	Tensile Strength	UL 746A
36	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials (Tests after UV Exposure and Water Exposure)	Charpy Impact Strength	ASTM G155
37	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials (Tests after UV Exposure and Water Exposure)	Charpy Impact Strength	UL 746C
38	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials (Tests after UV Exposure and Water Exposure)	Flammability	ASTM G155
39	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials (Tests after UV Exposure and Water Exposure)	Flammability	UL 746C
40	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials (Tests after UV Exposure and Water Exposure)	Flammability	UL 94
41	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials (Tests after UV Exposure and Water Exposure)	Izod Impact Strength	UL 746A
42	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials (Tests after UV Exposure and Water Exposure)	Izod Impact Strength	UL 746C
43	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials (Tests after UV Exposure and Water Exposure)	Tensile Strength	ASTM G155
44	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials (Tests after UV Exposure and Water Exposure)	Tensile Strength	UL 746A

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45	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials Tests after UV Exposure and Water Exposure)	Tensile Impact Strength	ASTM G155
46	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials Tests after UV Exposure and Water Exposure)	Charpy Impact Strength	UL 746A
47	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials Tests after UV Exposure and Water Exposure)	Izod Impact Strength	ASTM G155
48	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials Tests after UV Exposure and Water Exposure)	Tensile Impact Strength	UL 746A
49	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Solid Insulating Materials Tests after UV Exposure and Water Exposure)	Tensile Impact Strength	UL 746C
50	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Charpy Impact Resistance of Notched Specimens	ASTM D6110
51	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Charpy Impact Test	ISO 179-1
52	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Coefficient of Linear Thermal Expansion and Glass Transition Temperature	ASTM E831
53	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Coefficient of Linear Thermal Expansion and Glass Transition Temperature	ISO 11359-2
54	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Compositional Analysis (by Thermo-gravimetry)	ASTM E1131
55	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Compositional Analysis (by Thermo-gravimetry)	ISO 11358-1
56	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Creep Behaviour (Tensile Creep)	ISO 899-1
57	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Differential Scanning Calorimetry - Temperature and Enthalpy of Melting and Crystallization	ISO 11357-3
58	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Dynamic Mechanical Properties - Complex Shear Viscosity	ISO 6721-10
59	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Dynamic Mechanical Properties - Flex	ASTM D5023

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60	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Dynamic Mechanical Properties - Torsion (Shear)	ASTM D5279
61	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Dynamic Mechanical Properties - Torsional (Shear) Vibration	ISO 6721-7
62	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Dynamic Mechanical Properties- Flexural Vibration	ISO 6721-5
63	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Dynamic Mechanical Properties.- Melt Rheology (Viscosity)	ASTM D4440
64	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Dynamic Mechanical Properties.- Melt Rheology (Viscosity)	ISO 6721
65	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Flexural Properties- Modulus, Strength & Strain	ASTM D790
66	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Flexural Properties- Modulus, Strength & Strain	ISO 178
67	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Glass Transition Temperature and Step Height - by Differential Scanning Calorimetry (Tg, Tm and TC)	ISO 11357-2
68	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	High Speed Puncture Test	ASTM D3763
69	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Izod Impact Strength	ISO 180
70	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Izod Pendulum Impact-Resistance Test	ASTM D256
71	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Melt Flow Index	ASTM D1238
72	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Melt Flow Index	ISO 1133 (Part 1 & 2)
73	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Properties of Polymeric Materials (Viscosity)	ISO 11443
74	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Properties of Polymeric Materials (Viscosity)- (by Means of Capillary Rheometer-Viscosity)	ASTM D3835
75	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Puncture Impact Behaviour of Rigid Plastics	ISO 6603-2
76	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Specific Heat Capacity	ASTM E1269

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77	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Specific Heat Capacity (by DSC)	ISO 11357- 4
78	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Temperature of Deflection under Load (HDT)	ASTM D648
79	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Temperature of Deflection under Load (HDT)	ISO 75-1
80	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Tensile Fatigue (Uniaxial Fatigue Properties of Plastics)	ASTM D7791
81	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Tensile- Impact Strength	ISO 8256
82	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Tensile Properties- Modulus, Strength & Strain	ASTM D638
83	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Tensile Properties- Modulus, Strength & Strain	ISO 527-2
84	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Tensile, Compressive and Flexural Creep and Creep-Rupture of Plastics	ASTM D2990
85	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Thermal Conductivity of Plastics (by Means of Transient Line- Source Technique)	ASTM D5930
86	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Transition Temperatures and Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimetry	ASTM D3418
87	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Unnotched Cantilever- Beam Impact Resistance Test	ASTM D4812
88	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Vicat Softening Temperature (VST)	ASTM D1525
89	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material and Products	Vicat Softening Temperature (VST)	ISO 306