National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CUSTOMER SERVICES & DEVELOPMENT CENTER, HPCL-MITTAL ENERGY LIMITED, A27, SECTOR-65, NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8347 **Page No** 1 of 3

Validity 17/03/2022 to 16/03/2024 **Last Amended on** 03/06/2022

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 Films	Haze	ASTM D1003
2	CHEMICAL- PLASTIC & RESINS	Plastic Films & Materials	Xylene Solubles in Propylene Plastics	ASTM D5492
3	CHEMICAL- PLASTIC & RESINS	Plastic Materials	Moisture Content	ISO 15512 (Method E)
4	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Accelerated Weathering Test using UV Lamps	ASTM G151
5	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Apparent Density	ASTM D1895 (Method A&B)
6	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Ash Content	ASTM D5630 (Method B)
7	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Compositional Analysis by Thermogravimetry (TGA)	ASTM E1131
8	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Density of Plastic by Density Gradient Technique	ASTM D1505
9	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Determination of Elemental Content of Polyolefins by WD-XRF Spectrometry	ASTM D6247
10	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Determination of Oxidation Induction Time (Isothermal OIT)	ISO 11357-6
11	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Identification of Polymer by FTIR Spectroscopy	ASTM E1252
12	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Melt Flow Rate of Thermoplastics by Extrusion Plastometer	ASTM D1238
13	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Melt Flow Rate of Thermoplastics by Extrusion Plastometer	ISO 1133-1
14	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Melt Viscosity by Capillary Rheometer	ASTM D3835
15	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Oxidation Induction Time (OIT) of Polyolefins by Differential Scanning Calorimetry	ASTM D3895
16	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Particle Size (Sieve Analysis) of Plastic Material	ASTM D1921
17	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Percent Die Swell by Capillary Rheometer	ASTM D3835

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18	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Specific Gravity by Displacement Method	ASTM D792
19	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Specular Gloss	ASTM D2457
20	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Transition Temperatures and Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimeter (DSC)	ASTM D3418
21	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Whiteness Index (WI)	ASTM E313
22	CHEMICAL- PLASTIC & RESINS	Plastic Materials & Products	Yellowness Index (YI)	ASTM E313
23	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Films	Static & Kinetic Coefficients of Friction (CoF)	ASTM D1894
24	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Films	Tensile Elongation	ASTM D882
25	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Films	Tensile Strength	ASTM D882
26	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials	Measuring Shrinkage from Mold Dimensions of Thermoplastics	ASTM D955
27	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Charpy Impact Strength	ASTM D6110
28	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Charpy Impact Strength	ISO 179 (Part 1)
29	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Flexural Modulus	ASTM D790
30	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Flexural Modulus	ISO 178
31	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Hardness (Shore D)	ASTM D2240
32	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Heat Deflection Temperature of Plastics under Flexural Load in Edgewise Position	ASTM D648
33	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Heat Deflection Temperature under Load	ISO 75 (Part 1, 2, 3)
34	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Izod Impact Strength	ASTM D256

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35	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Izod Impact Strength	ISO 180
36	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Tensile Elongation	ASTM D638
37	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Tensile Elongation	ISO 527 (Part 1 & 2)
38	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Tensile Modulus	ASTM D638
39	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Tensile Strength	ASTM D638
40	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Tensile Strength	ISO 527 (Part 1 & 2)
41	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Vicat Softening Temperature of Plastics	ASTM D1525
42	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Materials & Products	Vicat Softening Temperature of Plastics	ISO 306
43	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Thermoplastic Elastomers	Hardness (Shore A)	ASTM D2240