National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : R&D ANALYTICAL LABORATORY, VARROC POLYMERS PVT. LTD., M138/139, MIDC WALUJ, AURANGABAD, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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	MECHANICAL-AUTOMOTIVE COMPONENTS	Filters(Air)	Air Permeability	ASTM F316-03
2	MECHANICAL-AUTOMOTIVE COMPONENTS	Filters(Air)	Burst Strength	ISO 2758
3	MECHANICAL-AUTOMOTIVE COMPONENTS	Filters(Air)	Pore size characteristic (Bubble point, mean pore, modal pore)	ASTM F316-03
4	MECHANICAL-AUTOMOTIVE COMPONENTS	Filters(Oil & Air)	GSM	JIS P8124
5	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Cushion Hardness	JIS K 6400-2
6	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Compression set	IS 7888
7	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Constant Deflection Compression set test	ASTM D3574 Test D
8	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Foam Density	ASTM D3574
9	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Foam Density	IS 7888
10	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Hysteresis loss	ASTM D3574
11	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Indentation force deflection/ Indentation load deflection	ASTM D3574
12	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Indentation force deflection/ Indentation load deflection	ASTM D3574
13	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Indentation force deflection/ Indentation load deflection	IS 7888

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14	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Indentation force deflection/ Indentation load deflection	IS 7888
15	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Resilience (Ball rebound)	ASTM D3574
16	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Urethane Cushion Hardness	HMSI 7710Z-KWPD120- M2
17	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Urethane Cushion Hardness	HMSI 7710Z-KWPD120- M2
18	MECHANICAL-AUTOMOTIVE COMPONENTS	Polyurethane and seat assembly	Urethane Cushion Hardness	HMSI-7710Z-GHA-7200
19	MECHANICAL-AUTOMOTIVE COMPONENTS	Rubber & Plastic Products	Shore D hardness	ASTM D2240
20	MECHANICAL-AUTOMOTIVE COMPONENTS	Rubber & Plastic Products	Shore A Hardness	ASTM D2240
21	MECHANICAL-AUTOMOTIVE COMPONENTS	Rubber & Plastic Products	Shore A Hardness	JIS K6253-3
22	MECHANICAL-AUTOMOTIVE COMPONENTS	Rubber & Plastic Products	Shore D hardness	JIS K6253-3
23	MECHANICAL-AUTOMOTIVE COMPONENTS	Rubber & plastic Products	Taber Abrasion	ASTM D3389
24	MECHANICAL-AUTOMOTIVE COMPONENTS	Rubber & Plastic Products	Taber Abrasion	ISO 5470-1
25	MECHANICAL- NOISE & VIBRATION	Vibration Testing	Vibration Testing: Resonance detection, Endurance	JIS D1601
26	MECHANICAL- NOISE & VIBRATION	Vibration Testing	Vibration Testing: Resonance detection, Endurance,	JIS D1601
27	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Body parts	Resistance to Environmental Cycle	GMW 14124

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28	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Body parts	Resistance to Environmental Cycle	GMW 14650
29	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Body parts	Resistance to Environmental Cycle	PV 1200
30	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Body parts	Resistance to Environmental Cycle	PV 2005
31	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Capacity Test	ABS00123
32	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Capacity Test	HMSI 1720Z
33	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Capacity Test	ISO 5011
34	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Capacity Test	JIS D1612
35	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Efficiency Test	ABS00123
36	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Efficiency Test	HMSI 1720Z-GHA- 6300
37	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Efficiency Test	ISO 5011
38	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Efficiency Test	JIS D1612
39	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Restriction and Differential Pressure test, Air flow resistance	ABS00123
40	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Restriction and Differential Pressure test, Air flow resistance	ABS00123
41	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Restriction and Differential Pressure test, Air flow resistance	ABS00123

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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
42	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Restriction and Differential Pressure test, Air flow resistance	HMSI 1720Z-GHA- 6300
43	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Restriction and Differential Pressure test, Air flow resistance	HMSI 1720Z-GHA- 6300
44	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Restriction and Differential Pressure test, Air flow resistance	HMSI 1720Z-GHA- 6300
45	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Restriction and Differential Pressure test, Air flow resistance	ISO 5011
46	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Restriction and Differential Pressure test, Air flow resistance	ISO 5011
47	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Restriction and Differential Pressure test, Air flow resistance	ISO 5011
48	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Restriction and Differential Pressure test, Air flow resistance	JIS D1612
49	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Restriction and Differential Pressure test, Air flow resistance	JIS D1612
50	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Filters(Air)	Restriction and Differential Pressure test, Air flow resistance	JIS D1612
51	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Polyurethane and seat assembly	Deflection	HMSI 7710Z-GHA-7200
52	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Polyurethane and seat assembly	Deflection	HMSI 7710Z-KWPD120- M2
53	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Polyurethane and seat assembly	Hysteresis loss	HMSI 7710Z-GHA- 7200
54	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Polyurethane and seat assembly	Hysteresis loss	HMSI 7710Z-KWP-D120-M2
55	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Polyurethane and seat assembly	Load characteristics	HMSI 7710Z-GHA-7200

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56	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Polyurethane and seat assembly	Load characteristics	HMSI 7710Z-KWPD120- M2
57	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Polyurethane and seat assembly	Spring rate ratio	HMSI 7710Z-GHA-7200
58	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Polyurethane and seat assembly	Spring rate ratio	HMSI 7710Z-KWPD120- M2
59	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber & Plastic Products	Temperature Resistance	IS 14210
60	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Glass(Rear View Mirror)	Bending	AIS 001 (Part 1 & 2)
61	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Glass(Rear View Mirror)	Bending	IS 14210
62	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Glass(Rear View Mirror)	Impact	AIS 001(Part 1 & 2)
63	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Glass(Rear View Mirror), Rubber & Plastic Products	Temperature Resistance	IS 14210
64	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Glass(Rear View Mirror), Rubber & Plastic Products	Temperature Resistance	JIS D5705
65	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat Assemblies	Durability resistance against vibration	HMSI 7710Z-GHA-7200
66	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat Assemblies	Durability resistance against wrinkles	HMSI 7710Z-KWPD120- M2
67	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat Assemblies	Durability -Resistance against wrinkles	HMSI 7710Z-GHA-7200
68	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat Assemblies	Dynamic Fatigue Test by Constant Force Pounding	ASTM D3574 (Test I)
69	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat Assemblies	Seat Assy Durability resistance against vibration,Thickness loss,	HMSI 7710Z-GHA-7200

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70	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat Assemblies	Seat Assy Durability resistance against water,Wet amount	HMSI 7710Z-GHA-7200
71	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat Assemblies	Seat Assy Durability resistance against water,Wet amount	HMSI 7710Z-GHA-7200
72	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat Assemblies	Seat Assy Durability resistance against water,Wet amount	HMSI 7710Z-KWPD120- M2
73	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat Assemblies	Seat Assy Durability resistance against water,Wet amount	HMSI 7710Z-KWPD120- M2