

Laboratory

Gujarat Test House, Plot No. 292, Road No. 4, GIDC Kathwada,
Ahmedabad, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6658 (in lieu of T-0670)

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Validity 17.12.2017 to 16.12.2019

Last Amended on 18.12.2017

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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MECHANICAL TESTING

I. RUBBER & RUBBER PRODUCTS				
1.	Motorcycles & three wheelers tyres	Section Width Outer Diameter	IS 15627:2005 Reff.2015 Amed. 3	20 mm to 600 mm/1mm 150 mm to 2000 mm/1mm
2.	Passenger cars tyres	Section Width Outer Diameter	IS 15633:2005 Reff.2015 Amed.4	100 mm to 600 mm/1mm 150 mm to 2000 mm/1mm
3.	Bus / Truck tyres & Light CV tyres	Section Width Outer Diameter	IS 15636:2012 Amed. 3	20 mm to 600 mm/1mm 200 mm to 2000 mm/1mm
4.	Motorcycles & three wheelers tyres	Endurance test	IS 15627:2005 Reff.2015 Amed. 3	Drum Dia. 1700 mm Speed 10 km/h to 350 km/h/1km/h Load 50 kg to 15000 kgs/1kg
5.	Passenger cars tyres	Endurance test	IS 15633:2005 Reff.2015 Amed.4	Drum Dia. 1700 mm Speed 50 km/h to 350 km/h/1km/h Load 50 kg to 20000 kgs/1kg
6.	Bus / Truck tyres & Light CV tyres	Endurance test	IS 15636:2012 Amed. 3	Drum Dia.2000 mm Speed 10 km/h to 300 km/h/1km/h Load 20 kg to 20000 kgs/1kg Tyre Dia. ± 3.5 %
7.	Motorcycles & three wheelers tyres	Load speed Test	IS 15627:2005 Reff.2015 Amed. 3	Drum Dia. 1700 mm Speed 10 km/h to 350 km/h/1km/h Load 20 kg to

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				15000 kgs/1kg Tyre Dia. $\pm 3.5\%$, Width 0-150 mm
8.	Passenger cars tyres	Load speed Test	IS 15633:2005 Reff.2015 Amed.4	Drum Dia. 1700 mm Speed 10 km/h to 350 km/h / 1km/h Load 50 kg to 15000 kgs / 1kg Tyre Dia. $\pm 3.5\%$
9.	Bus / Truck tyres & Light CV tyres	Load speed Test	IS 15636:2012 Amed. 3	Drum Dia.2000 mm Speed 10 km/h to 300 km/h / 1km/h Load 50 kg to 20000 kgs / 1kg
10.	Motorcycles& three wheelers tyres	Plunger Test	IS 15627:2005 Reff.2015 Amed. 3	10 kgf to 20000 kgf/1kgf
11.	Passenger cars tyres	Plunger Test	IS 15633:2005 Reff.2015 Amed.4	10 kgf to 20000 kgf/1kgf
12.	Bus / Truck tyres & Light CV tyres	Plunger Test	IS 15636:2012 Amed. 3	10 kgf to 20000 kgf/1kgf
13.	Motorcycles& three wheelers tyres	Tread Wear Indicators	IS 15627:2005 Reff.2015 Amed. 3	0.01 mm to 40 mm/0.1mm
14.	Passenger cars tyres	Tread Wear Indicators	IS 15633:2005 Reff.2015 Amed.4	00.01 mm to 40 mm/0.1mm
15.	Bus / Truck tyres & Light CV tyres	Tread Wear Indicators	IS 15636:2012 Amed. 3	0.01 mm to 40 mm/0.1mm
16.	Motorcycles& three wheelers tyres	Dynamic growth Test for Motorcycle tyres	IS 15627:2005 Reff.2015 Amed. 3	5 rpm to 3000 rpm/1rpm Growth 1mm to 150 mm max.
17.	Passenger cars tyres	Bead Unseating Resistance Test Tubeless passenger car Tyres	IS 15633:2005 Reff.2015 Amed.4	1 kgf to 20000 kgf/1kgf
19	Auto Tubes/	Leakage Test	IS-13098-2012	Qualitative

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	Rubber materials			
20.	Auto Tubes/ Rubber materials	Pull out Strength	IS:9081/2011, IS-13098-2012	5 kg to 450 kg/1kg
		Dimension and Design features	IS:9081-2011 Reff.2017	0.1 mm to 20 mm/0.01mm
		Valve Designation	IS:9081-2011 Reff.2017	Qualitative
		Bendability valve stem	IS:9081-2011 Reff.2017	Qualitative
		Buffing	IS:9081-2011 Reff.2017	Qualitative
		Adhesion Test	IS:9081-2011 Reff.2017	Qualitative
		Valve core leakage	IS:9081-2011 Reff.2017	Qualitative
		Valve core interchangeability	IS:9081-2011 Reff.2017	Qualitative
		Valve core Marking	IS:9081-2011 Reff.2017	Qualitative
		Valve core workmanship	IS:9081-2011 Reff.2017	Qualitative
		Form & Fit	IS:13098/2012	Qualitative
		Thickness Uniformity	IS:13098/2012	0.5 mm to 25 mm/0.01mm
		Air Tightness	IS:13098/2012	Qualitative
		Strength of splice	IS:13098/2012	10 kgf/cm ² to 250 kgf/cm ² / 1 kgf/cm ²
		Set after ageing	IS:13098/2012	5 % to 100 %
		Elongation	IS:13098/2012	5 % to 1000 %
II.	PERFORMANCE/DURABILITY/SAFETY TEST			
1.	Safe	Height Width Depth Thickness Diameter	IS:550 (Part 1) - 2014	50 mm to 5000 mm/ 1mm 0.5 mm to 150 mm/0.05mm
		Burglary resistance	IS:550 (Part 2) – 2005 Reff.2010	Qualitative

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		Fire endurance test	IS:550 (Part 3) – 2005 Reff.2010	Qualitative
		Fire and Impact test	IS:550 (Part 3) – 2005 Reff.2010	Qualitative
2.	Vault (Strong Room) Doors	Height Width Depth Thickness Diameter	IS:11188(part 1)-2014	50 mm to 5000 mm/ 1mm 0.5 mm to 150 mm/ 0.05mm
		Fire endurance test	IS:11188(part 3)-1991 Reff.2010	Qualitative
		Fire Hose Stream Reheat Test	IS:11188(part 3)-1991 Reff.2010	Qualitative
		Burglary resistance	IS:11188(part 2) -2017	Qualitative
3.	Safe Deposit Locker Cabinet	Height Width Depth Thickness	IS:5244-2014	50 mm to 5000 mm/ 1mm 0.5 mm to 150 mm/ 0.05mm
		Burglary resistance	IS:5244-2014	Qualitative
4.	Fire Resisting (Insulating) Filing Cabinets	Latch test	IS:14561-2014	Qualitative
		Drawer Suspension test		Qualitative
		Test for checking strength of cradle strips		Qualitative
5.	Fire resisting magnetic media protection cabinets	Height Width Depth Thickness	IS:14505-1998 Reff.2008	20 mm to 5000 mm/ 1mm 0.5 mm to 150 mm/ 0.05mm
6.	Fire resisting computer media protection cabinets	Height Width Depth Thickness	IS:14562 -2014	20 mm to 5000 mm/ 1mm 0.5 mm to 150 mm/ 0.05mm

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7.	Fire Resisting Record Protection Cabinets	Height Width Depth Thickness	IS:14203 -2017	20 mm to 5000 mm/ 1mm 0.5 mm to 150 mm/ 0.05mm
8.	Safe cum safe deposit lockers	Height Width Depth Thickness	IS:14512 -1998 Reff.2009	20 mm to 5000 mm/ 1mm 0.5 mm to 150 mm/ 0.05mm
9.	Fire resisting (insulating) filing cabinets	Height Width Depth Thickness	IS:14561-2014	20 mm to 5000 mm/ 1mm 0.5 mm to 150 mm/ 0.05mm
10.	Fire resisting magnetic media protection cabinets	Fire endurance test	IS:14505-1998 Reff.2008	Qualitative
11.	Fire resisting computer media protection cabinets	Fire endurance test	IS:14562 -2014	Qualitative
12.	Fire Resisting Record Protection Cabinets	Fire endurance test	IS:14203 -2017	Qualitative
13.	Safe cum safe deposit lockers	Fire endurance test	IS:14512 -1998 Reff.2009	Qualitative
14.	Fire resisting (insulating) filing cabinets	Fire endurance test	IS:14561-2014	Qualitative
15.	Metallic and Non-Metallic Fire Check doors	Fire endurance test	IS:3614(P2)-1992 Rff.2012	10 °C to 1400 °C

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16.	Fire resisting magnetic media protection cabinets	Fire and Impact Test	IS:14505-1998 Reff.2008	Qualitative
17.	Fire resisting computer media protection cabinets	Fire and Impact Test	IS:14562 -2014	Qualitative
18.	Fire Resisting Record Protection Cabinets	Fire and Impact Test	IS:14203 -2017	Qualitative
19.	Safe cum safe deposit lockers	Fire and Impact Test	IS:14512 -1998 Reff.2009	Qualitative
20.	Fire resisting (insulating) filing cabinets	Fire and Impact Test	IS:14561-2014	Qualitative
III.	WOOD & WOOD PRODUCTS			
1.	Plywood (General Purpose)	Moisture Content	IS:1734 -1983 Pt-1 Reaff:2003	5 % to 30 %
		Dimensions Length Width Thickness	IS:303-1989 Reaff:2003, Cl.8	50 mm to 3050 mm 50 mm to 3050 mm 1 mm to 50mm
		Workmanship & Finish	IS:303-1989 Reaff:2003	Qualitative
		Glue share Strength	IS:1734-1983 Pt-1 Reaff:2003	50 Kgf to 5000 Kgf.
2.	Marine Plywood	Moisture Content	IS:1734-1983 Pt-1 Reaff:2003	5 % to 30 %
		Adhesion of Ply	IS:710-2010	Qualitative

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		Dimensions Length Width Thickness	IS:710 -2010	50 mm to 3050 mm 50 mm to 3050 mm 1 mm to 50mm
		Workmanship & Finish	IS:710-2010	Qualitative
3.	Block Board	Adhesion of Plies	IS:1659-2004 Annex-H	Qualitative
		Resistance to Water	IS:1659-2004 Annex-F	Qualitative
		Modulus of Rapture	IS:1659-2004 Annex-9.2.5	15 N/mm2 to 100 N/mm2
		Dimensions Length Width Thickness	IS:1659-2004	50 mm to 3050 mm 50 mm to 3050 mm 1 mm to 50mm
4.	Flush door Shutter.	Dimensions Length Width Thickness	IS:4020-1998 Pt-2 Reaff:2008	50 mm to 3050 mm 50 mm to 3050 mm 1 mm to 50mm
		Local Plainness	IS:4020-1998 Pt-4 Reaff:2008	0.01 mm to 5.0 mm
		End Immersion	IS:4020 -1998Pt-3 Reaff:2008	Qualitative
		Knife test	IS:4020 -1998Pt-14 Reaff:2008	Qualitative
		Squareness	IS:4020-1998 Pt-2 Reaff:2008	10 mm to 500 mm
		Straightness	IS:4020-1998 Pt-2 Reaff:2008	10 mm to 2445 mm
		General Flatness	IS:4020-1998 Pt-3 Reaff:2008	0. 1 mm to 10 mm
		Impact Indentation test	IS:4020-1998 Pt-5 Reaff:2008	0.1 mm to 10 mm

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		Edge Loading Test	IS:4020-1998 Pt-7 Reaff:2008	0.1 mm to 10 mm
		Shock Resistance Test	IS:4020-1998 Pt-8 Reaff:2008	Qualitative
		Buckling Test	IS:4020-1998 Pt-9 Reaff:2008	1 mm to 100 mm
		Misuse Test	IS:4020-1998 Pt-11 Reaff:2008	Qualitative
		Varying Humidity Test	IS:4020-1998 Pt-12 Reaff:2008	0.01 mm to 10 mm
		Glue Adhesion Test	IS:4020-1998 Pt-15 Reaff:2008	1 mm to 150 mm
		Screw withdrawal Resistance Test	IS:4020-1998 Pt-16 Reaff:2008	10 N to 5000 N
		Slamming Test	IS:4020-1998 Pt-10 Reaff:2008	Qualitative
		Flexure Test	IS:4020-1998 Pt-6 Reaff:2008	0.1 mm to 100 mm
5.	Decorative Thermosetting Synthetic Resin Bonded Laminated Sheet	Resistance to immersion In boiling water	IS:2046-1995 Reff.2005 Annex-D	Qualitative
		Resistance to Dry Heat	IS:2046-1995 Reff.2005 Annex-E	Qualitative
		Resistance to Cracking	IS:2046-1995 Reaff:2005Annex-K	Qualitative
		Resistance to Cigarette Burn.	IS:2046-1995 Reaff:2005 Annex-P	Qualitative
		Resistance to Steam	IS:2046-94,Amd-1 Reaff:2005Annex-T	Qualitative
		Resistance to Crazing	IS:2046-1995 Reaff:2005Annex-W	Qualitative
		Moisture Resistance	IS:2046-1995 Reaff:2005Annex-Y	5% to 30 %

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		Thickness	IS:2046-1995 Reaff:2005Cl.5.3	0.01 mm to 5.0 mm
		Dimensions Length Width Thickness	IS:2046-1995 Reaff:2005 Cl.5.4.6	50 mm to 3050 mm 50 mm to 3050 mm 1 mm to 50mm
		Straightness	IS:2046-1995 Reaff:2005 Cl.5.4.6	0.01 mm to 5.0 mm
		Squareness	IS:2046-1995 Reaff:2005 Cl.5.4.7	0.01 mm to 5.0 mm
6.	Veneered Decorative Plywood	Moisture Content	IS:1734-1983 Pt-1 Reaff:2003	5 % to 30 %
		Water Resistance	IS1328:1996 Reaffirmed 2007	Qualitative
		Dimensions Length Width Thickness	IS:1328:1996 Reaffirmed 2007	50 mm to 3050 mm 50 mm to 3050 mm 1 mm to 50mm
7.	Plywood for Concrete shuttering works	Moisture Content	IS:1734-1983 Pt-1 Reaff:2003	5 % to 30 %
		Adhesion of Plies	IS:1734-1983 Pt-5 Reaff:2003	Qualitative
		Dimensions Length Width Thickness	IS:4990-2011 Reaff:2003	50 mm to 3050 mm 50 mm to 3050 mm 1 mm to 50mm
8.	Particle Board/ Medium Density/ Pre Laminated	Density	IS:2380 -1977 Pt-3	50 Kg/m ³ to 1600 Kg/m ³
		Moisture Content	IS:2380 -1977 Pt-3	5 % to 30 %
		Water Absorption	IS:2380 - 1977 Pt-16	Qualitative

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	Particle Board/ Pre Laminated MDF Board	Dimensions Length Width Thickness	IS:3087-2005	50 mm to 3050 mm 50 mm to 3050 mm 1 mm to 50mm
9.	Fiber Board	Density	IS:1658 -2006Annex-A	50 Kg/m3 to 1600 Kg/m3
		Dimensions Length Width Thickness	IS:1658 -2006Annex-A	50 mm to 3050 mm 50 mm to 3050 mm 1 mm to 50mm
		Water Absorption	IS:1658 -2006Annex-B	Qualitative