

Laboratory	Faurecia Interior Systems India Pvt. Ltd., Test Laboratory, Plot No. T-187, Pimpri Industrial Area (B. G. Block), Bhosari, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	10.09.2014
Certificate Number	T-3100	Valid Until	09.09.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	AUTOMOTIVE COMPONENTS			
1.	Component Testing (Rubber & Plastic Products)			
a.	(Plastics/Fabric/ Leather/Vinyl) For Automotive Interior Painted and non-Painted parts	Soiling & Cleanability	Ford FLTM BN 112-08: 2010 Daimler DBL 5399: 2007 General Motors GMW 3402: 2011	Qualitative (1 to 5 Grade)
		Odor resistance	Ford FLTM BO 131-01 : 2000 Ford FLTM BO 131-03 : 2013 Volkswagen PV 3900:2000 General Motors GMW 3205:2011	Qualitative (1 to 6 Grade)
		Migration Staining	Ford FLTM BN 103-01 : 2001	Qualitative (1 to 5 Grade)
		Flammability	ISO 3795 : 1989 SAE J369: 2013 FMVSS 302: 1991 General Motors GMW 3232: 2011 DIN 75200:1980 Renault D45 1333 H : 2013	320 mm Length & 999 Minutes
		Crocking	Ford FLTM BN 107-01 : 2007 Renault D45 1010 : 2010	Qualitative (1 to 5 Grade)
		Environmental Cycle Temperature -40°C to 200°C Humidity 25% to 99%	Ford FLTM BQ 104-07 : 2000 Except Procedure 7 & 8), General Motors GMW 14124:2012 (Except cycles F, G, J, T,U,V, X), Renault D471309 : 2013 Daimler DBL 5471.90:2007 (From Clause 4.1 to 4.6) Ford WSS M15P4F : 2013 (clause No. 3.3.1)	Qualitative

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	(Plastics/Fabric/ Leather/Vinyl) For Automotive Interior Painted and non-Painted parts	Bond Strength	Ford FLTM BN 121-01 : 2001 Ford FLTM BN 151-05 : 2008 Renault D51 1485 : 2007	Qualitative 25 kgf to 1000 kgf
		Heat Ageing	Ford WSS M15P4F : 2013 (clause No., 3.3.2.2 to 3.3.2.4)	Qualitative (30 °C to 150 °C)
		Resistance to Abrasion (By Taber Abrasion)	Ford FLTM BN 108-02 : 2001; SAE J948 : 2011; General Motors GMW3208: 2012	Qualitative (1 to 5 Grade)
		Resistance to Scuffing (By Taber Abrasion)	SAE J365 : 2012	Qualitative (1 to 5 Grade)
		Tensile Strength& Tensile Elongation	ASTM D 638 : 2010 ISO 527-2 : 2012	4 N to 30000 N Extension: 0 mm to 1500 mm
		Resistance to scoring due to Burnishing	Renault D42 1775 : 2013	Qualitative AATCC Grey Scale Rating 1 to 5
		Resistance to Marking	Renault D44 1900: 2008	Qualitative
		Resistance to Abrasion wear by Rubbing	Renault D14 1055 : 2004	Qualitative AATCC Grey Scale Rating 1 to 5
		Resistance Sunscreen Lotion & Insect Repellant	Ford FLTM BI 113-08 : 2008,	Qualitative AATCC Grey Scale Rating 1 to 5

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	(Plastics/Fabric/ Leather/Vinyl) For Automotive Interior Painted and non-Painted parts	Indentation & Recovery	Ford FLTM BO 111-02:2001	Qualitative
		Color Measurement	Ford FLTM BI 109-01:2011	L,a,b Values Δ E Measurement
		Water Spotting Test	General Motors GMW 14102: 2010	Qualitative
		Window Cleaner Spotting	Ford WSS-M2P188-A1:2014 (clause 3.4.14)	Qualitative
		Perspiration Resistance	Ford FLTM BI 113-06: 2002	Qualitative
		Gloss Measurement	ASTM D523 : 2008, Ford FLTM BI 110-01: 2012 DIN 67530: 1982 JIS Z 8741: 1997 Renault D25 1413:2010	Gloss @ 60° 0 to 100 GU
		Colors in Light Chamber	Ford FLTM BI 109-01:2011 Renault D15 1343: 2006	Qualitative
b.	(Plastic Painted) for Automotive Interior Parts	Paint Adhesion	ISO 2409:2013 Renault D21 3092: 2011, Renault D21 3093: 2011 Ford FLTM BI 106-01:2010	Qualitative
c.	(Plastics/ Rubber) for Automotive Interior Parts	Shore A & Shore D Hardness Test	ISO 868:2003; ASTM-D-2240-2010	Shore A Hardness 20 to 100 Shore D Hardness 20 to 100
d.	(Plastic) for Automotive Interior parts (Cockpit /Door)	Rigidity Test	Ford SDS Version 17:2010 Ford IP& Console SDS Version 24:2011, Renault Specification 32-04- 071:2008	2 N to 30000N

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	(Plastic) for Automotive Interior parts (Cockpit /Door)	Durability/Endurance	Ford SDS Version 17:2010 IT-0102,IT-0103, IT- 0104,IT- 0109,IT-0117IT-0114, IT-0721 Ford IP-Console Version19 :2008, DVM-0001 Renault Specification 32-04- 812:1996	Qualitative
		Assembly & Disassembly Efforts for Interior Trim & IP	Ford SDS Version 17 :2010 Clause IT-0034 & 35 Ford IP& Console SDS Version 24 :2011, Renault 90-00-351:2007	0.01 kgf to 20 kgf
e.	(Plastic) for Automotive Interior Parts	Service Cycles for Interior Trim & IP	Ford SDS Version 17:2010,Clause IT-0036 Ford IP& Console SDS Version 24 :2011	Qualitative
		Resistance to Scratch or Marr	Ford FLTM BO 162-01:2009 General Motors GMW14688:2007	Qualitative
	(Plastic) for Automotive Interior Parts	Impact Resistance Room Temperature to -40°C	Renault D42 1235 : 2010, Ford FLTM BO 151-01: 2006, Ford WSS M15P4-F:2012 Clause 3.4)	Qualitative
f.	Plastic Components	Geometry / Co-ordinate Measurement	3 Dimensional Measurement DIN1319-1:1995 DIN1319-2:2005 DIN1319-3:1996 DIN1319-4:1999	CMM 3000 X 1600 X 1600 mm.

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	Plastic Components		Volkswagen VW10126-1:2011 Volkswagen VW10126-2:2011 Volkswagen VW10126-3:2011 Volkswagen VW10126-4:2011 Volkswagen VW10126-5:2011 Volkswagen VW 10132:2005	Faro Arm / (Portable CMM) 3000mm
		Length Measurement	2 Dimensional Measurement ISO16012-2004 DIN1319-1:1995 DIN1319-2:2005 DIN1319-3:1996 DIN1319-4:1999 Volkswagen VW10126-1:2011 Volkswagen VW10126-2:2011 Volkswagen VW10126-3:2011 Volkswagen VW10126-4:2011 Volkswagen VW10126-5:2011 Volkswagen VW 10132:2005	0.5 mm to 1000 mm
	Plastic Components	Thickness Measurement	2 Dimensional Measurement ISO16012-2004	0.5 mm to 50 mm
		Gap Measurement	DIN1319-1:1995 DIN1319-2:2005	0.05 mm to 50 mm
		Inner Diameter Measurement	DIN1319-3:1996 DIN1319-4:1999	0.5 mm to 50 mm
		Outer Diameter Measurement	Volkswagen VW10126-1:2011 Volkswagen VW10126-2:2011	0.5 mm to 50 mm
		Weight Measurement	Volkswagen VW10126-3:2011 Volkswagen VW10126-4:2011	0.02 kg to 5 kg
		Corner Fillet Measurement	Volkswagen VW10126-5:2011 Volkswagen VW 10132:2005	1.0 mm to 15 mm

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