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silicone leather automotive leather standard

1.1 Purpose:

Establish silicone rubber material standards, stabilize the quality output of raw materials, and ensure the uniqueness, standardization and

Accuracy, in order to formulate the "Test Standard-Silicone Leather Standard".

1.2 Scope of application:

Applicable to all silicone leathers in use within the company.

1.3 Reference standards:

GB/T 4689.20 Determination of adhesion fastness of leather coating GB/T17928

Determination of pinhole tear strength of leather QB/T 2537 Leather color fastness test

Reciprocating friction color fastness

QB/T 2707 Preparation and conditioning of leather physical and mechanical test specimens

QB/T 2710 Physical and mechanical tests on leather. Determination of tensile strength and elongation. QB/T 2711 Physical and

mechanical tests on leather. Determination of tear force: double-sided tear

QB/T 2714 Physical and mechanical tests for leather - Determination of folding fastness QB/T 2715 Physical

and mechanical tests for leather - Determination of apparent density QB/T 2725 Determination of leather

odor QB/T 2726 Physical and mechanical tests for leather -

Determination of abrasion resistance QB/T 2727-2017 Leather color fastness test - Color fastness to artificial

light: Xenon arc test QB/T 2728-2005 Physical and mechanical tests for leather - Determination of atomization

performance QB/T2729 Physical and mechanical tests for leather - Determination of horizontal burning performance

QB/T 4874 Test methods for artificial leather and synthetic leather - Determination of fatigue strength of seams QB/T

 $5248\ Test\ method\ for\ resistance\ of\ leather\ to\ detergents\ QB/T5249\ Leather\ chemical\ tests\ -\ Determination\ of\ total\ volatile$

organic matter QB/T 5250-2018 Leather color fastness test - Color change

under accelerated aging conditions QB/T5253.1-2018 Physical and mechanical tests on leather -

Determination of soiling properties - Part 1: Martindale rubbing method

2. Inspection standards:

	Inspection standard				Inspection Equipment	National/
Inspection items	steering wheel leather Other decorative Leather for seat cushions leather			Inspection methods		Light Industry
						Standards
Apparent density/ (g/cm³) Wide	Written agreement between the two parties			Tested according to QB/T 2715 standard		0.6-0.8
format Written agreement between both parties				Use a tape measure to record and compare to the acceptance criteria	Tape measure	1.37M
	reed by both parties in writing				percentage	
Thickness standard ag				Use a thickness gauge to measure the leather at three points along the width of the leather: left, middle and right	Table thickness	
				The measurement results are compared with the acceptance criteria as average values.	Meter	

2. 2 Bits Agents and better presenting process dependency of air model chart and other defects 3. The cofference and charticles, of airth and other defects 4. The cofference and charticles, of airth and other defects 4. The cofference and charticles, of airth and other defects 4. The cofference and charticles, of airth and other are considered with the complete and charticles and charticles. The cofference and charticles and charticles and charticles and charticles. The cofference and charticles and charticles and charticles. The cofference and charticles and charticles and charticles. The cofference and charticles and charticles. The cofference and charticles and charticles and charticles and charticles. The cofference and charticles and charticles and charticles. The cofference and charticles and charticles and charticles and charticles. The cofference and charticles and charticles and charticles and charticles and charticles and charticles. The cofference and charticles and charticles and charticles and charticles and charticles and charticles. The cofference and charticles and char		Clear patterns, consistent depth	and color			Visual	
Problems, market, verificities, and activated determined from some plants. The extinates word standard of this heard that we consistent with the sample. Level 4.5 Does an experience of your and standard from the first determined from the first determined of the specimen of your and standard of the specimen of your and standard of the specimen. Linear recognization specimens in 45 to 2, 20 consistent color factors of the specimen. Were warping y (5000 smeet) Lavel 4.5 Div yerseer y (5000 smeet) Lavel 4.5 Div yerseer y (5000 smeet) Lavel 4.5 Filtrands 2 (100 smeet) 4.5 Filtrands 2 (100 smeet) 4.5 Filtrands 3 (100 smeet) 4.5 bovel Neutral strap solutions y (100 smeet) Level 4.5 Filtrands 3 (100 smeet) Level 4.5 Filtrands 4 (100 sme	Appearance	Pinholes, marks, wrinkles, oil stains and other defects			Under sufficient light, operators rely on visual observation.	/hand	
Sweat resistance: 9 (200 (200 times) 4.5 (200					Discover surface flaws and color differences	Feeling	
Several resistance y (200) Level 4.5 Level							
Level 4.5 Rub best 2. Abrasano color flactness last device, the factor head consists of A cylindrical structure with a diameter of (16.9.1) mm The determinant pressure is (19.0.2)M. Make a (100.5) mm cut along the direction of the specimen. Unter wigning by (500 times) Level 4.5 Dry ensite y (5000 times) Level 4.5 Dry ensite y (5000 times) Level 4.5 Ethanol 5 y (10 times) 4.5 level A Use nothing (times) Ethanol 5 y (10 times) 4.5 level Neutral scop solution by (100 times) Level 4.5 Heavy and then completely immensed in water, for a period of time The water adoption rate of the cost on feeding to the above positions. Alternating Wagh the conditioned contion rationing day for the frection feeding to the above positions. Alternating Wagh the conditioned contion rationing days before used soops. The water aboveption rate of the cost on feeding continue and according to the above position. Alternating Wagh the condition dolling continue and according to the above position. Alternating Wagh the condition dolling continue and according to the above position. Alternating Wagh the condition dolling continue and the continue and the continue and early again testine use. The water aboveption rate of the cost on feeding continue and according to the above position. Alternating Wagh the condition dolling the state in a temperature of 65 (45)°C. Figure and the cost of the cost on feeding the state in a temperature of 65 (45)°C. Figure and the cost of the cost on the cost of the cost of the cost on the cost of the cost of the cost on the cost of the cost on the cost of the cost of the cost of the cost on the cost of the cost on the cost of the cost on the cost of the cost of the cost on the cost of the cost of the cost on the cost of		Sweat resistance: ÿ (200		(200 times)	Cut four strips of not less than 140mm*50mm in pairs.		100/200
2. Arrestinn color fistness test device, the friction head consists of A cylindrical structure with a diameter of (16±0.1) mm The downward pressure is (18±0.2)%. Mate a (100±5) mm out along the direction of the specimen. Unear responsibility minor along the direction of the specimen. Unear responsibility minor along the direction of the specimen. Unear responsibility minor and song the direction of the specimen. Unear responsibility minor along the direction of the specimen. Unear responsibility minor along the direction of the specimen. Unear responsibility minor along the direction of the specimen. Unear responsibility minor along the specimen. Unear responsibility of the friction feed of the specimen. Unear responsibility of the friction head specified in 2 4. Wet nubling (Wingh the conditioned continuability along (2) Heavy, and then completely immended in water, for a period of time Talk in out, squared to operation along the specimen of the		Level 4/5	(300 times) 4/5	4/5	Perpendicular specimens for dry and wet friction		/100
A cylindrical structure with a diameter of (falch 1) mm The downward pressure is (80.0 2)N. Make a (100.45) mm out atong the direction of the specimen. Linear reciprocating motion 3. White control cloth (control reciprocating) motion 3. White control cloth (control reciprocating) motion 4. Wet wiping (9000 times) Level 45 Dry erase: 9 (9000 times) Level 45 Bhanci 9 (100 times) 45 level Bhanci 9 (100 times) 45 level Neutral soap solution: 9 (100 times) Level 45 Haivy, and then completely immersaed in water, for a particul of times Tale to ob. operate it of greft to suppose out the water, and exigh it again before use. The water absorption rate of the coston friction cloth coston fraction cloth and Dry under the piece 5. Gircy card for staining assessment, in accordance with GB/T251 1. Put the leather into a clean, oddrises glass pri and cover it with a lid. 2. Place the glass par containing the leather in a temperature of 65 (s3)*C. In the over for 1 hour, take out 2. Place the glass par containing the leather in a temperature of 65 (s3)*C. In the over for 1 hour, take out 2. Place the glass par containing the leather in a temperature of 65 (s3)*C. In the over for 1 hour, take out 2. Place the glass par containing the leather in a temperature of 65 (s3)*C. In the over for 1 hour, take out 3. Recent to lips and with your has with your nose flow asystem the nooth of the particulation of t	,				Rub test		
The downward pressure is (9.0.2 N. Make a (100.5) mm out along the direction of the specimen. Linear recorporating motion 3. White cotton cloth (contentring to 100 mms) (500 mms) Level 4/5 Dry erasis y (500 mms) Level 4/5 Ethanois y (100 mms) 4/5 level Nautral scap solution: y (100 mms) 4/5 level Nautral scap solution: y (100 mms) 4/5 level Nautral scap solution: y (100 mms) Level 4/5 Ethanois y (100 mms) 4/5 level Nautral scap solution: y (100 mms) 4/5 level Nautral					Abrasion color fastness test device, the friction head consists of		
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Color figestones to dry rubbing (times) Dry erase: 9 (5000 times) Level 4.5 Ethanck: 9 (10 times) 4/5 level Neutral soap solution: 9 (100 times) Level 4/5 Ethanck: 9 (100 times) Level 4/5 Block, suitable for the friction head specified in 2 4. Wet rubbing: Weigh the conditioned cotton rubbing cloth (2) Heavy, and then completely immersed in water, for a period of time Take to x, speces a cut gently to squesze out the water, and weigh it again before use. The water absorption rate of the cotton friction cloth reaches (100±5)%. It is fixed to the friction head (2) and measured according to the above provisions. After the friction is finished, remove the cotton friction cloth and Dry under the piece 5. Grey card for staining assessment, in accordance with GB/T251 1. Put the leather into a clean, odorfess glass jar and cover it with a lid. 2. Place the glass jar containing the leather in a temperature of 65 (±3)°C. In the oven for 1 hour, take out 3. Burnors the list and to with your head with your need file measure from the nound of the jec. Automatically guide the air from the test tank to the noise and inhale slowly Temperature SG±20, press with SKG weight for 18 hours Temperature SG±20, press with SKG weight for 18 hours Temperature SG±20, press with SKG weight for 18 hours		Maturialian	: (500 times) must 4/5		White cotton cloth (cotton friction cloth), conforming to	Wear-resistant	times) dry
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Neutral soap solution: 9 (100 times) Level 4/5 4. Wet rubbing: Weigh the conditioned cotton rubbing cloth (2) Heavy, and then completely immersed in water, for a period of time Take it out, squeeze it out gently to expecte coult the water, and weigh it again before use. The water absorption rate of the cotton friction cloth reaches (100±5)%. It is fixed to the friction head (2) and measured according to the above provisions. After the friction is finished, remove the cotton friction cloth and Dry under the piece 5. Grey card for staining assessment, in accordance with GB/T251 1. Put the leather into a clean, odorfess glass jar and cover it with a lid. 2. Place the glass jar containing the leather in a temperature of 65 (43)°C. In the oven for 1 hour, take out 3. Remove the id and fan with your hout stom away from the mouth of this jar. Automatically guide the air from the test tank to the nose and inhale slowly Temperature 50±29; press with 5KG weight for 18 hours Temperature 50±29; press with 5KG weight for 18 hours	dry rubbing (times)				Block, suitable for the friction head specified in 2	Fastness	ÿ2000
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Automatically guide the air from the test tank to the nose and inhale slowly Temperature 50±2ÿ, press with 5KG weight for 18 hours Color Migration ÿ Grade 4 Content burning Content burning					In the oven for 1 hour, take out	smell	
Color Migration ÿ Grade 4 Temperature 50±2ÿ, press with 5KG weight for 18 hours Consert-hundly							
Color Migration ÿ Grade 4					Automatically guide the air from the test tank to the nose and inhale slowly		
					Temperature 50±2ÿ, press with 5KG weight for 18 hours	constant temperature	
Make a judgment	Color Migration	Color Migration ÿ Grade 4		Make a judgment	Constant humidity		
<u>box</u>						box	
Add the sewn specimen to the fixture and set the test value		Pinhole elongation value ÿ2			Add the sewn specimen to the fixture and set the test value		catch
Joint fatigue 2500 times open the equipment and use a vernier caliper to measure the seam residence	Joint fatigue				2500 times open the equipment and use a vernier caliper to measure the	Seam resistance	
strength/ Pinhole elongation value ÿ2 seam stitching of each group within 10 minutes while maintaining the load. gatigue ÿ2mm	strength/				seam stitching of each group within 10 minutes while maintaining the load.	fatigue	ÿ2mm
Mm All pinholes are measured and the data are recorded (3-5 test	mm				All pinholes are measured and the data are recorded (3-5	test	
Group)					Group)	_	
Machine wear						Machine wear	
Anti-cleaning Instant coffee/ketchup/blue or black ballpoint pen/cola/soy sauce/chocolate	Anti-cleaning	Instant coffee/ketchun/hlue or hlack hallnoint pos/colo/cou pouce/shocoloto				Color rubbing	
Fastness Grade ÿ4						Fastness	Grade ÿ4
	periormance/grade	e Gram milk/saturated sodium chloride solution ÿ Level 4				test	
test							

				·		
Heat aging resistant	surface without stickiness, shiny, brittleness and other degradation phenomena			1. Static oven temperature (80±2)ÿ, relative humidity Degree < 10% 2. Put it in the oven for 24 hours, take it out and cool it at room temperature. After cooling for (120±15) min, observe the surface	Static	Grade ÿ4
High temperature over	120ÿ, 168H No obvious cracks on the st	urface Put it into 120ÿ constant temp	erature oven for 168H			ÿ Grade 4
Resistance to moisture and	Simulate the automobile's resistance to warm and humid climates, and aging through heat and humidity cycle treatment (i.e. hydrolysis resistance). Compared with the original sample, appearance, color, shrinkage, flexibility, etc. ÿ 4 levels			1. Temperature 40ÿ, humidity 90%, 4 hours 2. Heat to 120ÿ for 2 hours and turn off humidity control 3. Temperature 120ÿ, humidity 90%, 4 hours 4. Cool to 40ÿ, humidity 90%, 2 hours, temperature When the temperature is less than 90ÿ, turn on the humidity control. 5. Loop 20 times	contact temperature Constant humstry box	Grade ÿ3
Martindale wear resistance (times)	ÿ200,000 times (three coats)			1. Take samples from different locations of the material to be tested. The cut should be made at least 10cm away from the edge of the material. 2. Cutting diameter (44+1) mm or (38+1) mm Sample. 3. Before testing the sample in standard state, place the sample at a temperature 4 hours in an environment with a temperature of 21±19 and a relative humidity of 65±2% The test can be performed after 10 seconds. 4. Place the sample in the sample holder base. Put a piece of foam gasket on it, and then remove the foam The cotton gasket is fixed with a fixing ring. The specimen holder base is locked. 5. Hold the handles on the tablet with both hands and remove the tablet. Install the blanket and rubbing cloth, 6. Place the sample holder with the installed sample facing downwards. Place it on the friction cloth, take the weight, and make the weight rod pass through The round hole on the plate aligns the groove on the specimen holder with the Standard weight rod. 7. Turn on the power and set the test strip on the control panel to start the test. 8. When the test conditions are reached, the machine will automatically stop or process If the sample is damaged, press Pause to stop the machine. 9. Record the sample Test results,	Martin Dyer Wear resistant mactiva	
Folding fastness at room temperature ÿ700000 Second-rate)	No cracks / No cracks			Tommx45mm test pieces are used as test samples, two pieces Parallel to the horizontal direction, two pieces parallel to the vertical direction; Use arrows to indicate the direction of the test piece;		100000 Second-see

Low temperature folding fastness (-10ÿ, 200000	No cracks / No cracks			3. Adjust the upper fixture to the level; line Align the test piece along the length direction at the center Fold, paying attention to the surface facing inwards; 5. Place the test piece into the upper fixture and clamp it tightly; 6. Fold the test piece in reverse so that the surface of the test piece faces outside; 7. Adjust the appropriate tension and place the test piece in the lower fixture. Clamping; 8. Repeat steps B to G to install other test piece; 9. Set the bending machine to 50,000 times and start bending. Different from 10000/25000/35000/40000 inspections Test piece . Then check every 2000 times. Second, record the extent and type of damage; 10. Perform a final inspection after 200,000 times and record the results.	Flexibility test	-10ÿ Down 20000
Color fastness to light/grade	ÿ4	ÿ4	/	Tested according to QB/T 2727-2017 standard		ÿ4
Anti-adhesion	ÿ Grade 5,			The sample coating is bonded to the coating and placed in a constant temperature of 80 (±2)ÿ and press with a load of 10N, constant temperature Take it out after 3 hours and peel off the bonded sample by hand	constant temperature Oven	ÿ Grade 4
Bursting strength	ў1МРа			Place the sample with the coating facing down and clamp it with a ring clamp. Slowly pressurize until the sample is broken. Test results Take the average value of 3 samples as the standard	Muiron Style Break Crack Strength Degree Test Maddiss Impedian	ў1МРа

Flame						
	mpact: low temperature -30ÿ, 24H, no obvious cracks on the surface			Put it in -30ŷ high and low temperature impact test box for 24 hours No obvious cracks on the surface	High and Low Wen Chong Hit Test Travel bag	
Tearing load N(L/W)	Longitude ÿ40 Latitude ÿ40	Longitude ÿ50 Latitude ÿ50	Longitude ÿ40 Latitude ÿ40	1. Sampling complies with QB/T 2706/QB/T 2707 County 2. The tensile testing machine should meet the following requirements: Range The range is suitable for the object to be measured, and the fixture is (100± 20) mm/min speed to do uniform motion; with memory Device for recording force-distance curve; Minimum width of fixture (50±2)mmÿ 3. Adjust the distance between the clamps of the tensile testing machine. Make the distance between the upper and lower clamps 50mm. 4. Clamp the specimen on the lower fixture of the tensile testing machine One side of the cut is about 20 mm, and the cut side of the sample is folded in half. The other side is clamped in the upper fixture at 180° to ensure that the specimen The long side is parallel to the tensile direction of the tensile testing machine. 5. Start the tensile testing machine until the specimen breaks, and record Record force-distance diagram.	Double Column Stretch test nections	Seat ÿ 40 Steering wheel ÿ 50 Others ÿ 40
Elongation at		Warp ÿ10% Weft ÿ15%		Use the tensile testing machine to operate 3 pieces of 200mm*30mm The sample has a marking line spacing of 100 mm and a tensile Speed 200mm/min	Double Column Stretch test	
Tensile load ÿNÿ		Longitude ÿ400 Latitude ÿ400		1. More than 100mm away from the edge of the sample along the longitudinal/vertical direction. Cut 3 pieces each in the wett/cross direction. The sample size is length (200 ±2)mmX width (50±1)mm, avoid defects when cutting Spots, marks, stains and other defects. 2. Set the fixture spacing to (100 ± 1) mm and constant Elongation rate: (200±20)mm/min. 3. Sample clamping: The two ends of the sample in the length direction are Do not clamp the two clamps to ensure that the center line of the tension passes through The midpoint of the fixture. And at the initial distance between the fixtures Draw a marking line at the end. 4. The specimen can be clamped under pre-tension or loosely clamped When the specimen is clamped with pre-tension, the elongation The growth rate is not more than 2%. If it cannot be guaranteed, use Loose clamping means clamping without tension. 5. Measurement: Turn on the tester and stretch the specimen until it breaks. Record the maximum force (unit: N) accurately to 0.1N, clamp distance Lÿ at break (single (mm), accurate to 0.1mm.	Double Column Stretch test	Seat ÿ 160 Steering wheel ÿ 200 Others ÿ 160

				Sampling standard: The inner wall is a square: 100mm*10mm		
				2. The tensile machine is operated vertically, with a speed of (100±5)		
				mm/min, and can automatically record the force-distance diagram 3.		
				Dry sample test: Use a clean cloth to dampen the		
				The lotion will bond the surface of the adhesive board and the surface of the leather finish		
				Wipe clean.		
				Apply a thin layer evenly on the surface of the adhesive board.		
				The adhesive was kept at room temperature for 40 minutes and then placed	Double Column	
Strip load	ÿ30	::25	::20	Heat in an oven at (85±3)ÿ for 10 min.	Stretch	
ÿN/10mm	y30	ÿ35	ÿ30	Apply a layer of adhesive evenly on the surface of the sample.	test	
ÿ				Then place the sample with the coating facing downwards on the heated	machine	
				The two ends of the adhesive board are 15mm beyond the adhesive board. Then press the weight block on the specimen for 5 minutes. 6. Insert		
				the adhesive board into the support frame, with the test end and		
				Align one end of the support frame and clamp the sample with the sample clamp.		
				Test end and hang it on the tension hook (see Figure 4).		
				Start the tensile machine to test and record the leather		
				Force-distance diagram when the specimen is separated from the coating layer by		
				30–35mm. 8. Change the direction of the specimen on the support plate and press		
				Repeat the test in 7.1.5 in the opposite direction.		
TABER wear-	6000 revolutions No obvious	8000 turns No	2000 coating	Load the cut specimens into the wear tester and set	SUBJECT	Seat ÿ
resistant	damage/peeling of	obvious damage/	without	The specified value is then taken out to observe whether the leather surface is	R Resistance	1000,
(H-22, 1000g)	coating	peeling of coating	obvious	Is there any obvious damage or peeling?	Grinding test	Steering wheel
		F9 39dding	damage/peeling		Machine inspection	ÿ2000