



규격번호 (SPEC NO) MS 343-11

1. SCOPE

This specification defines the quality of wall paper for automotive interior.

2. TYPES

Wall paper shall be classified as shown in Table 1 depending upon application and weight.

				Table 1		
	Туре	es	Weight(g <sub>f</sub> /m <sup>*</sup> )	Application	Materials	Remarks
	Type A	A1	Max. 400	RR SHELF RR PACKAGE		NON-BACK COAT
		A2	Min. 400	TRUNK MAT TRUNK TRIM	PET, PP	BACK COAT
	Type B			TRUNK MAT	13	BACK COAT

## 3. REQUIREMENTS

- 3.1 General Requirements
  - KH Im or latex for reinforcement, 1) Wall Paper shall be coated prevention of wrink Hy Lands RI - Kon Magoors
  - 2) Wall paper shall be free from defeits in appearance such as flaw, bare skin, spikes and pits, tack, unevenness, staining, etc.
  - 3) Wall paper shall have no excessive difference from agreement samples between parties in color pattern, uneven color, feeling, etc.
  - 4) The backing of wall paper shall attach uniformly to the fiber layers. The thickness of both mackings and carpets shall be uniform.
  - 5) Wall paper for the in floors shall be fabricated in the form otherwise specified and shall free from tear or crack.
- 6) When wall paper is used with different components and in contact with different materials, it shall have no defect for use such as stain, fade, crack and corrosion.
- 3.2 Detail Requirement

Wall paper shall be tested by the method specified in clause 4 and shall conform to the requirements in Table 2.

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《论社法博士济台》:"太阳地关系,192,168.8.173 / 2008-06-12 20:22 / 《水管地论坛》 "敏快不答 Colleta如理者的现在分词,我们必要太子的话,他们在"开关的人们",我们们的人们,我们们们的人们,我们们们的人们,我们们们的人们,我们们们



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ſ	Table 2						
		Types		Requirements			Test
	Test Items			Type A Type B		Type B	Methods
				A1	cified on the d	rawing	4.2
		Thickness (mm)					4.3
	Weight (g <sub>f</sub> /m <sup>*</sup> )		Wayn	As specified on the drawing           Min. 0.20(20)         Min. 0.39(40)         Min. 0.49(50)		Min. 0.49(50)	
	Tensile	Normal	Warp	Min. 0.20(20) Min. 0.20(20)	Min. 0.39(40)	Min. 0.49(50)	
7	Strength	State	Weft	Min. 0.20(20)	Min. 0.39(40)	Min. 0.49(50)	
	kN (kg <sub>t</sub> /50 mm)	After Immersion	Warp	Min. 0.20(20)	Min. 0.39(40)	Min. 0.49( <u>5</u> 0)	
-			Weft	Min. 60	Min. 70	Min 70	4.4
		Normal State	Warp	Min. 80	Min. 80	Min 80	
2	Elongation		Weft	Min. 60	Min. 70	Min. 70	
Ş	(%)	After Immersion	Warp	Min. 80	Min. 80	5 Min. 80	
			Weft	Min. 49.0(5)	Min. 98.1(10)		
	Tear	Normal State After	Warp	Min. 49.0(5)	Min. 98.1(10)	Min. 117.7(12)	4.5
	Strength		Weft	Min. 49.0(5) Min. 49.0(5)	Min. 98, 1(10)	Min. 117.7(12)	
-	N (kg <sub>f</sub> )		Warp	WITT. 49.0(3)	<b>7</b> Mi- <b>1</b> , 98.1(10)	Min. 117.7(12)	
		Immersion	Weft		Min. 3		4.6
	Abrasion Resistance (Grade)		<b>INDAI·KI</b> Á				
	(%) Weft				Max. 1		4.7
$\left  \right $				Po	Min. 3		4.8
	Color Fastness to Washing (Gr Color Fastness to Rubbing (Grade)		Dry	ð."	·····		
			Wet		Min. 4		4.9
	Fade Resistance		<u> </u>				
2	(Grade)			Min. 3		4.10	
	Color Fastness to Rubbing after		Mir	. 4	Min. 3	4.11	
-	Fade Resistance (Grade)			No defects such as tear, color change,			4.12
	Heat Aging <b>Res</b> istance			Peeling off,			4.12
	Low Temperature Resistance			No defect	s such as tear,	crack etc	4.13
	Crease Resi		Warp	60 ±15	60 ±15	70 ±15	4.14
5	(%) Weft		Weft				
	Flammability <sup>*Note 1)</sup> (mm/min)			Max. 80			4.15
	Odor (Grade)			Min. 4			4.16
ſ	Hazardous Substances			Each Material mus	t meet the requirem	ents of MS 201-02.	MS 201-

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ENGIN	EERING STANDARD		
4. TEST METHODS 4.1 Conditionin	20		
		or a minimum of 24 h at 2	23 ± 2 °C and 50 ± 5
		ng, and tested under the	
temperatur	e and humidity of the	laboratory is not standard	d condition, then recor
them.			
4.2 Thickness			
Shall conf	orm to clause 4.2 in MS	300-35.	•
			AH
4.3 Weight		000.05	31 11 91 11
Shall confe	orm to clause 4.4 in MS	300-35.	N
4 4 Tanaila atu	consth and alongation		5
	rength and elongation orm to clause 4.5 in MS	300-35	
For tensil	e strength and elongat	ion after immerster, immer	se specimens into wate
	°C for 16 h. Upon remov		in 15 minutes thereafte
4.5 Tear stren	oth HYUND	HI KIN MOTORS	
Shall confe	orm to clause 4.6 in MS	300 85.	
For tensil	e strength and elonga	on after immersion, immer	se specimens into wate
at 40 ±2	°C for 16 h. Upon remov	al, complete the test with	in 15 minutes thereafte
	with		
▲ 4.6 Abrasion re	esistance	200-25	
Shail conf	orm to clause 4.9 in MS	bad of 1 kg <sub>f</sub> per arm(both a	rm to load on each arm)
	DE DAMAYAGE : 50 ovoles	s, TRUCK TRIM & MAT : 100 c	cvcles)
(KK SHELF (			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Table 3	
Grade		Extent of Wear	
5	Perfectly free from	wear	
4	Pile yarn cut and w	ear a little noticeable but	not conspicuous
3		ear a little noticeable but	1
2		al and wear clearly noticea	

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:		o clause 4.10 in MS 300	-35.	a statistica de la constatistica de la constatistica de la constatistica de la constatistica de la constatistic
4.8	3 Color fastness Shall conform to	o clause 4.11 in MS 300	-35.	
	Apply test with *Note 2) Use co *Note 3) Use a d (Testin one li Agents 10 Fade resistance Shall conform After the spec extent of colo	b clause 4.12 in MS 300 both dry <sup>*Note 2)</sup> and swea tton No. 3 in Table 1 u dry cloth soaked in art ng Method for Color Fa ter(PH 4.5) by dissolvi : Na <sub>2</sub> HPO <sub>4</sub> • 12H <sub>2</sub> O 8 g + to ISO 105. ified exposure, evaluat r change YnLLTotherte rradiation : 65~100 y/	nder KS K 9010. ificial swat [6.4 D-Method stness to Perspiration)] ing the following agents NaCl 8 g + CH <sub>3</sub> COOM 5 g te the degrees of discolor	That is prepared in nto distilled water. ation and fading the
	ltems	Irradiance	B.P. Temperature Ch	amber humidity
	RR SHELF RR PACKAGE TRUNK MAT TRUNK TRIM	42 MJ/m <sup>2</sup>	89 ± 3 °C	50 ± 5 %RH
4.1	<ul> <li>* Irradiation in irradiation in</li> <li>1 Color Fastness</li> <li>Cut the speciment of fade resist</li> <li>specified in second</li> </ul>	tensity of 300~400 nm to Rubbing after Fade en already subjected t ance in clause 4.10 to	o the test in accordance 25 mm wide and 220 mm plied to the rubbing shoe	with the conditions long. Apply the test
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· · · · · · · · · · · · · · · · · · ·	Table 5		
Grade	Extent of Wear		
······································	erfectly free from wear	i	
	le yarn cut just a little produced.		
	le yarn cut noticeable but not conspicuous		
	le yarn clearly noticeable and pits a little noticeable.		
1 Pi	le yarn cut and pits produced on wear surface		
⚠ 4.12 Heat aging resis Shall conform to	stance o clause 4.14 in MS300-35. Table 6 Condition 80 ± 2 °C X 300 h		
ltems	Condition		
RR SHELF RR PACKAGE	= 80 ± 2 °C X 300 h		
TRUNK MAT TRUNK TRIM			
Shall conform to	HYLINDAI·KIA MOTORS o clause 4.15 in MS 200-35.		
4.14 Crease Resistanc	Ce*Note 4)		
1) Cut five sp	pecimens, <b>20</b> x 80 mm in both warp and wept direction(to		
specimens). inward.	Fold the specimen into two(onto 20 x 40 mm) with back side	e facing	
2) Put the spec	imen between smooth plates and apply a compressive load of	1 kg for	
5 minutes U	yon release from load, hang the specimen along the impresse	d crease	
on a 0.5 mm	m diameter wire stretched. Allow to stand for 5 minutes a	and then	
	opening angle of the specimen.		
3) Crease resis	stance A shall be obtained by the following formula.		
The average	of five determinations in warp and weft directions resp	ectively	
shall be con	nsidered as the result.		
$A = \frac{\alpha}{18}$	$\frac{\alpha}{180}$ × 100		
	Crease resistance (%), $\alpha$ : Opening angle (degree)		
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