Requalification Material Datasheet

Material	VB401LC17830C163
Customer	Adient Ltd & Co. KG
Project / Application	MFA2 / Seats
Based on technical regulation	DBL 5348; Edi./Ver.93; 2015-9-1
Part nr.	2578876-163020_D
Colour	Schwarz
Report date	04-10-2023

Technical Data	Units	Target	Results
7.1 - Mass per unit area			
7.1.1 – Total Weight	g/m²	1130 ± 100	1051
7.1.2 – Tricot		140 ± 10	139
7.1.3 – Lamifold		30 ± 4	31
7.4 - Thickness			
7.4.1 -Total	mm	5.8 ± 0.40	6.09
7.4.2 – Total imitation leather (PVU)		0.97 ± 0.15	0.96
7.4.3 - Cover layer		0.33 ± 0.05	0.30
7.4.4 - Foam layer		Approx..4.5	4.5
7.7 – Tensile strength			
7.7.1 - parallel	N	min. 380	712
7.7.2 - normal	N	min. 300	449
7.8 – Elongation at break			
7.8.1 - parallel	%	min. 40	60
7.8.2 - normal	%	min. 100	175
7.9 – Elongation at 50N and 100N			
7.9.1 - parallel			
7.9.1.1 - 50N	%	3 ± 2	3
7.9.1.2 - 100N	%	6 ± 4	6
7.9.2 - normal			
7.9.2.1 - 50N	%	9 ± 6	9
7.9.2.2 - 100N	%	27 ± 11	26
7.10 - Tear resistance			
7.10.1 - parallel	N	min. 35	82
7.10.2 – normal	N	min. 25	51

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Technical Data	Units	Target	Results
7.11 – Separation force			
7.11.1 – Tricot, parallel	N	min. 35*	structural break
7.11.2 – Tricot, normal	N	min. 25*	structural break
7.11.3 – Nonwoven parallel	N	18*	structural break
7.11.4 – Nonwoven normal	N	8* *(Or structural break)	structural break
7.13 – Stiffness			
7.13.1 - top	N	10.5 ± 2.0	9.9
7.13.2 - bottom	N	8.3 ± 1.5	8.4
7.15 – Coefficiente of friction			
7.15.1 - sliding friction	---	max. 0.35	0.24
7.15.2 - sticking friction		max. 0.55	0.27
7.16 – Scratch Resistance (Fingernail)	---	acc. DBL	OK
7.17 – Scratch Resistance of surface using a chisel Parallel and Normal / 2000g	---	No violation of surface	OK
7.18 - Heat Resistance		acc. DBL	OK
7.18.1 – Heat storage 14d at 90ºC color fastness to heat	Rating	acc. DBL	OK
7.18.2 – Heat storage for 1h at 90ºC folding		4.5	4.5
7.18.3 – Change in color after heat 7.18.1 (minimum)			
7.18.5 – Heat storage for 100h at 120ºC weight loss, (maximum)	%	1,5	-0.9
7.19 - Cold Resistance			
7.19.1 – Storage 3 d / -8ºC ± 2ºC	---	acc. DBL	OK
7.19.2 – Storage 7 d / -8ºC ± 2ºC			OK

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Technical Data	Units	Target	Results
7.20 – Color fastness (HFL) Blue scale	Rating	min. 7	7
7.21 – Aging (HLA) Grey scale	Rating	min. 3 5 periods	3.5
7.22 – Groan test RPN value following normal/humid storage	Rating	Target value 3	6
7.23 – Abrasion resistence 7.23.1 – Dry 7.23.2 - Wet 7.23.3 – MB stain remover 7.23.4 – MB plastics cleaner 7.23.5 – MB glass cleaner 7.23.6. Cotton Duck	Grade	 min. 4-5 min. 5 min. 4 min. 4 min. 4 ACC DBL	 4.5 5 4.5 5 5 OK
7.24 – Cleanability Water and soap MB stain remover MB plastics cleaner MB glass cleaner	grade	 min. 4 min. 4 min. 4 min. 4	 4.5 4 4.5 4.5
7.26 - Burning test Parallel Normal	mm/min	acc. to DBL 5307, PV10	44.8; 43.8; 45.1; 40.3; 43.4; 37.3; 38.7; 39.5; 45.1; 34.9:
7.27 – Emissions 7.27.1 – VOC 7.27.2 - FOG	 ppm ppm	 Target max 250 Target max 900	 Ongoing Ongoing
7.28 – Odor test	grade	max. 3	2.5

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Technical Data	Units	Target	Results
7.30 – Resistance to sunscream	Rating	max. 1	1
7.31 Determination of flex, bally flex, Permanent folding, maximum	Rating	Max.1	
7.31.1 – Supply condition RT, 200 000 cycles, longitudinal/tranverse			0
-20ºC, 50 000 cycles, longitudinal/tranverse			0
7.31.3 – After heat aging RT, 150 000 cycles, longitudinal/tranverse			1
-20ºC, 30 000 cycles, longitudinal/tranverse			1
7.31.4 – After storage in contact with oil RT, 150 000 cycle, longitudinal/tranverse			1
-20ºC, 30 000 cycles, longitudinal/tranverse			1
7.33 – Contact staining	Grade	min. 4-5	4.5
7.36 – Storage in contact with oil		acc. DBL	OK
7.37 – Loop fastener test 2h / -40ºC	Rating	Maximum rating 1	
7.37.1.1 – Longitudinal			0
7.37.1.2 – Transverse			0
7.37.2 – After storage in contact with oil			
7.37.2.1 – Longitudinal			0
7.37.2.2 – Transverse			0