



NIPPON SHEET GLASS CO., LTD.
 BATTERY SEPARATOR DIVISION
 RESEARCH & DEVELOPMENT DEPT.
 630 TARUI-CHO, FUWA-GUN, GIFU 503-2121, JAPAN
 TEL: +81-584-22-1101, FAX: +81-584-23-2477

Revision: Aug. 28, 2007
 Framing: Jan. 25, 2002

PROPERTIES of SYNTHETIC PULP SEPARATOR AND GLASSMAT

No.	Items		Unit	MDK-5	HIPK	LEWK	SSP Newly Developed	GLASS MAT	Remarks
1	Thickness		mm	0.5	0.3	0.3	0.3	0.4 - 1.5	
2	Tensile strength (CD)		N/mm ²	1.7	1.9	1.7	1.8	-	
3	Electrical resistance		· 100cm ² /sheet	0.00150	0.00110	0.00080	0.00075	-	SBA S 0402
4	Maximum pore size		μ m	30	17	14	13	-	Bubble point method
5	Mean pore size		μ m	2.8	1.9	0.7	0.7	-	Liquid porosimetry method
6	Electro-chemical oxidation durability		hr/sheet	50	50	100	100	-	1.30 s.g. at 50°C/2.5A
7	Free chlorine		mg/100cm ² ·sheet	0.1	0.1	0.1	0.1	0.1	SBA S 0402
8	Moisture content		wt%	4	4	4	4	-	
9	Purpose of development			Standard type.	Lower electrical resistance by reduced thickness vs. MDK.	High performance type. Low electrical resistance article.	High performance type. Low electrical resistance article.	Protecting the separator. Preventing falling off of plates active material.	
10	Application of lead-acid batteries	Automobile	Passenger vehicle	-		-	-		
11			Commercial vehicle (bus and taxi)		-	-	-		
12			High cold cranking performance		-	-			
13		Industry	Electric vehicle and cart		-	-	-		
14		Others	Baffle paper for VRLA		-	-	-	-	

*These test results represent typical average values obtained in accordance with NSG's standard methods.

These test results are not specifications but supplied as a technical information and subject to change without notice.