

INCH-POUND

MIL-PRF-6855/1A
 15 June 2009

SUPERSEDING
 MIL-R-6855/1
 16 February 1987

PERFORMANCE SPECIFICATION SHEET
 RUBBER, SYNTHETIC, SHEETS

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirement for acquiring the product described herein shall consist of this specification sheet and MIL-PRF-6855.

REQUIREMENTS:

Part numbers:

Part numbers shall consist of the prefix M, specification number, specification sheet number, and a six-digit dash number assigned using [tables I, II, III](#), and [IV](#) herein as shown in the following example:

<u>M</u>	<u>6855</u>	<u>/</u>	<u>1</u>	<u>=</u>	<u>XX</u>	<u>XX</u>	<u>X</u>	<u>X</u>
Prefix for Military Specification	Specification Number		Specification Sheet Number		Two-Digit Classification Number (table I).	Two-Digit Thickness Number (table II).	One-Digit Length Number (table III).	One-Digit Width Number (table IV).

Example: M6855/1-XXXXXX

Dimensional tolerances:

Tolerances of MIL-PRF-6855, table I and II, shall apply to sheet width and thickness respectively. Tolerance for sheet lengths shall be -0 percent, +3 percent of the specified length.

Surface finish:

All synthetic rubber sheet surfaces shall be smooth and free from cloth imprint, pin holes, flash, or any other imperfections which may impair serviceability.

VERIFICATION:

Inspection and test of synthetic rubber sheets shall be in accordance with MIL-PRF-6855, Section 4, VERIFICATION.

MIL-PRF-6855/1A

TABLE I. Type, class, grade.

Classification Number	Classification of Requirements		
01	Class 1	Grade 30	
02	Class 1	Grade 40	
03	Class 1	Grade 50	
04	Class 1	Grade 60	
05	Class 1	Grade 70	
06	Class 1	Grade 80	
07	Type A	Class 2	Grade 30
08	Type A	Class 2	Grade 40
09	Type A	Class 2	Grade 50
10	Type A	Class 2	Grade 60
11	Type A	Class 2	Grade 70
12	Type A	Class 2	Grade 80
13	Type B	Class 2	Grade 30
14	Type B	Class 2	Grade 40
15	Type B	Class 2	Grade 50
16	Type B	Class 2	Grade 60
17	Type B	Class 2	Grade 70
18	Type B	Class 2	Grade 80
19	Class 3	Grade 30	
20	Class 3	Grade 40	
21	Class 3	Grade 50	
22	Class 3	Grade 60	
23	Class 3	Grade 70	
24	Class 3	Grade 80	
25	Type A	Class 4	Grade 30
26	Type A	Class 4	Grade 40
27	Type A	Class 4	Grade 50
28	Type A	Class 4	Grade 60
29	Type A	Class 4	Grade 70
30	Type A	Class 4	Grade 80
31	Type B	Class 4	Grade 30
32	Type B	Class 4	Grade 40
33	Type B	Class 4	Grade 50
34	Type B	Class 4	Grade 60
35	Type B	Class 4	Grade 70
36	Type B	Class 4	Grade 80
37	Class 5	Grade 30	
38	Class 5	Grade 40	
39	Class 5	Grade 50	
40	Class 5	Grade 60	
41	Class 5	Grade 70	
42	Class 5	Grade 80	

TABLE II. Sheet thickness – T.

Sheet Thickness Number	T (Inches)
04	0.015
08	0.031
12	0.062
16	0.094
20	0.125
24	0.156
28	0.187
32	0.250
36	0.312
40	0.375
44	0.438
48	0.500
52	0.562
56	0.625
60	0.750
64	0.875
68	1.000
72	1.250
76	1.500

TABLE III. Sheet length – L.

Sheet Length Number	L (Inches)
1	24.000
2	36.000
3	48.000
4	60.000
5	72.000
6	120.000
7	144.000
8	300.000

TABLE IV. Sheet width – W.

Width Number	W (Inches)
1	12.000
3	18.000
5	24.000
7	36.000
9	40.000

MIL-PRF-6855/1A

Metric Conversion Chart ^{1/}			
Inch	mm	Inch	mm
0.015	0.38	0.875	22.23
0.031	0.79	1.000	25.40
0.062	1.57	1.250	31.75
0.094	2.39	1.500	38.10
0.125	3.18	12.000	304.80
0.156	3.96	18.000	457.20
0.187	4.75	24.000	609.60
0.250	6.35	36.000	914.40
0.312	7.92	40.000	1016.00
0.375	9.52	48.000	1219.20
0.438	11.13	60.000	1524.00
0.500	12.70	72.000	1828.80
0.567	14.27	120.000	3048.00
0.625	15.88	144.000	3657.60
0.750	19.05	300.000	7620.00
NOTE: ^{1/} See general note 2.			

GENERAL NOTES TO TABLES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Use of this specification sheet for US Army Communications-Electronics Command is restricted to Class 4 and Class 5 synthetic rubber sheets.

CHANGES FROM PREVIOUS ISSUE: Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodian(s):

Army – MR
 Navy – SH
 Air Force – 11
 DLA – CC

Preparing Activity:

Navy – SH
 (Project 4720-2008-018)

Review Activities:

Army – AR, AT, AV, CE, CR, MI
 Navy – AS, OS, YD
 Air Force – 71, 99
 DLA – GS, IS

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.