



**MATERIAL TESTING LABORATORIES, INC.**  
CONSULTING ENGINEERS

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## LABORATORY REPORT

MASONPRO, Inc.  
43300 Seven Mile Road  
Northville, MI 48167  
1-800-659-4731

PROJECT: Laboratory Testing of  
Plastic Shims (U Shape)

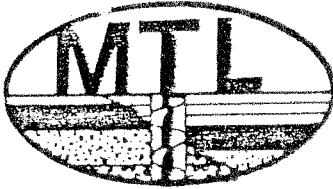
DATE TESTED: 4/12/04

MTL REPORT NO: 046164-01

### A. Compressive Strength, psi and load Vs. deflection, inches of clear plastic shims

Sample	Compressive Strength	#54 Hollow	#54 Solid	#58 Solid	#56 Solid
Color		Black	Black	Red	Blue
Length, inches		4.0	4.0	4.0	4.0
Width, inches		3.0	3.0	3.0	3.0
Thickness, inches		1/4	1/4	1/8	1/16
Test Area, Sq. In.		9.00	9.00	9.00	9.00
Load, lbs	PSI	Deflection, in.	Deflection, in.	Deflection, in.	Deflection, in.
5,000	556	0.0008	0.0005	0.0004	0.0002
10,000	1111	0.0025	0.0020	0.0009	0.0003
15,000	1667	0.0043	0.0028	0.0012	0.0004
20,000	2222	0.0067	0.0035	0.0015	0.0004
25,000	2778	0.0085	0.0038	0.0019	0.0005
30,000	3333	0.0105	0.0041	0.0022	0.0005
35,000	3889	0.0135	0.0045	0.0025	0.0006
40,000	4444	0.0200	0.0047	0.0028	0.0006
45,000	5000	0.0270	0.0051	0.0030	0.0007
50,000	5556	0.0310	0.0053	0.0034	0.0007
60,000	6667	0.0410	0.0058	0.0037	0.0009
70,000	7778	0.0490	0.0065	0.0040	0.0010
80,000	8889	0.0585	0.0074	0.0042	0.0012
90,000	10,000	0.0650	0.0080	0.0044	0.0014
100,000	11,111	0.0715	0.0088	0.0045	0.0016
110,000	12,222	0.0785	0.0095	0.0046	0.0017
120,000	13,333	0.0865	0.0103	0.0047	0.0018

Respectfully submitted,  
MATERIAL TESTING LABORATORIES, INC.  
Joseph Z. Khakshour



**MATERIAL TESTING LABORATORIES, INC.**  
AN ENGINEERING COMPANY

P.O. BOX 205 • 238 MANNHEIM ROAD  
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FACILITIES ARE INSPECTED  
BY NATIONAL BUREAU OF  
STANDARD - CCRL

June 9, 1986

RE: Testing of Plastic "U" Samples  
MTL Report No. 86165-01

Gentlemen:

This is our report of Load Deflection tests conducted on samples of Plastic "U"s. Samples were submitted to our Laboratory on May 30, 1986.

Samples identification and summary of results are as follows:

Sample Color	Black	Red	Blue
Sample Thickness	0.250	0.125	0.0625
Sample Width, each side	0.500	0.500	0.500
Sample Height, each side	1.500	1.500	1.500

Semi-circular at the bottom. Test Area 2.0 Sq. Inches.

Compression, % of Initial Thickness, PSI

5,000	4.3	6.2	7.0
10,000	26.9	10.3	13.8
20,000	49.6	21.0	33.0
30,000	56.2	31.7	45.8
38,000	58.8	38.1	51.8
50,000	-	47.0	-
56,000	-	51.1	-

Complete test data (Load vs. Deflection) are enclosed.

Respectfully Submitted,

MATERIAL TESTING LABORATORIES, INC.

*Joseph Z. Khakshour*

Joseph Z. Khakshour  
Manager of Inspection  
and Testing Services

JZK:jk  
Enclosure

Sample Color		Black	Red	Blue
Sample Thickness		0.250	0.125	0.0625
Load, lbs.	PSI	Deflection, Inches		
1,000	500	0.0016	0.0012	0.0009
2,000	1,000	0.0030	0.0020	0.0017
3,000	1,500	0.0040	0.0028	0.0021
4,000	2,000	0.0049	0.0037	0.0024
5,000	2,500	0.0057	0.0045	0.0027
6,000	3,000	0.0066	0.0054	0.0029
7,000	3,500	0.0074	0.0061	0.0031
8,000	4,000	0.0084	0.0068	0.0035
9,000	4,500	0.0094	0.0073	0.0039
10,000	5,000	0.0108	0.0078	0.0044
12,000	6,000	0.0170	0.0089	0.0054
14,000	7,000	0.0295	0.0099	0.0061
16,000	8,000	0.0450	0.0110	0.0068
18,000	9,000	0.0575	0.0120	0.0076
20,000	10,000	0.0672	0.0129	0.0086
24,000	12,000	0.0840	0.0156	0.0108
28,000	14,000	0.0965	0.0184	0.0133
32,000	16,000	0.1072	0.0202	0.0160
36,000	18,000	0.1177	0.0230	0.0184
40,000	20,000	0.1240	0.0262	0.0206
44,000	22,000	0.1283	0.0293	0.0224
48,000	24,000	0.1324	0.0324	0.0240
52,000	26,000	0.1360	0.0352	0.0256
56,000	28,000	0.1386	0.0375	0.0271
60,000	30,000	0.1405	0.0396	0.0286
64,000	32,000	0.1422	0.0419	0.0299
68,000	34,000	0.1440	0.0440	0.0309
72,000	36,000	0.1456	0.0458	0.0317
76,000	38,000	0.1471	0.0476	0.0324
80,000	40,000		0.0492	
84,000	42,000		0.0514	
88,000	44,000		0.0533	
92,000	46,000		0.0551	
96,000	48,000		0.0570	
100,000	50,000		0.0588	
104,000	52,000		0.0603	
108,000	54,000		0.0622	
112,000	56,000		0.0639	