



# MATERIAL TESTING LABORATORIES, INC.

## CONSULTING ENGINEERS

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## LABORATORY REPORT

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PROJECT: Laboratory Testing of  
Plastic Shims (U-Shape)

DATE TESTED: 4/12/04

MTL REPORT NO: 046164-01

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

Sample	Compressive Strength	1/4" Hollow	1/8" Solid	1/16" Solid
		CHS14	CHS18	CHS16
Color		Clear	Clear	Clear
Length, inches		3-5/16	3-5/16	3-5/16
Width, inches		1-7/16	1-7/16	1-7/16
Thickness, inches		1/4	1/8	1/16
Test Area, Sq. In.		1.68	1.68	1.68
Load, lbs	PSI	Deflection, in.	Deflection, in.	Deflection, in.
5,000	2976	0.0034	0.0004	0.0003
10,000	5952	0.0089	0.0008	0.0008
15,000	8928	0.0123	0.0110	0.0015
20,000	11905	0.0178	0.0015	0.0020
25,000	14881	0.0225	0.0020	0.0025
30,000	17857	0.0285	0.0028	0.0029
35,000	20833	0.0350	0.0037	0.0032
40,000	23810	0.0412	0.0042	0.0036
45,000	26786	0.0476	0.0050	0.0041
50,000	29762	0.0552	0.0059	0.0046
55,000	32738	0.0611	0.0068	0.0049
60,000	35714	0.0662	0.0078	0.0051
65,000	38690	0.0703	0.0083	0.0054
70,000	41667	0.0755	0.0090	0.0057
75,000	44643	0.0795	0.0095	0.0060
80,000	47619	0.0830	0.0100	0.0062
85,000	50595	0.0858	0.0104	0.0064

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