



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

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

Sample	Compressive Strength	1/4" Hollow	1/8" Solid	1/16" Solid
		PHS4, 24, 14, 34	PHS8, 28, 18, 38	PHS6, 26, 16, 36
Color		Black	Red	Blue
Length, inches		4.0	4.0	4.0
Width, inches		3.0	3.0	3.0
Thickness, inches		1/4	1/8	1/16
Test Area, Sq. In.		9.00	9.00	9.00
Load, lbs	PSI	Deflection, in.	Deflection, in.	Deflection, in.
5,000	556	0.0008	0.0004	0.0002
10,000	1111	0.0025	0.0009	0.0003
15,000	1667	0.0043	0.0012	0.0004
20,000	2222	0.0067	0.0015	0.0004
25,000	2778	0.0085	0.0019	0.0005
30,000	3333	0.0105	0.0022	0.0005
35,000	3889	0.0135	0.0025	0.0006
40,000	4444-	0.0200	0.0028	0.0006
45,000	5000	0.0270	0.0030	0.0007
50,000	5556	0.0310	0.0034	0.0007
60,000	6667	0.0410	0.0037	0.0009
70,000	7778	0.0490	0.0040	0.0010
80,000	8889	0.0585	0.0042	0.0012
90,000	10,000	0.0650	0.0044	0.0014
100,000	11,111	0.0715	0.0045	0.0016
110,000	12,222	0.0785	0.0046	0.0017
120,000	13,333	0.0865	0.0047	0.0018

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