



H. H. HOLMES TESTING LABORATORIES, INC.

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Report No.: 0840.1
Re: Plastic Handles

Date: 22 July 1997

TESTS CONDUCTED FOR: Tuf-Tite
1125 Old Rand Road
Wauconda, IL 60084

ITEMS TESTED: One (1) sample set plastic full-radius H-1 handles

OBJECT OF TEST: To determine the tensile strength (utilizing a 2" wide strap) both at room temperatures ($73 \pm 2^\circ \text{F}$ / $50 \pm 3\% \text{RH}$) and frozen ($0 \pm 2^\circ \text{F}$) and the impact resistance of the handle frozen ($0 \pm 2^\circ \text{F}$)

FINDINGS:

TENSILE STRENGTH
(lbs.)

Room Temperature	Frozen
1200	1200

IMPACT
(Swinging impact with
15 lb. sledge)

Handle deformed and twisted
No material breakage noted

Respectfully submitted,

Scott R. Nelson
President

Kenneth M. Clibourn
Vice-President