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CHEMISTRY AND CHEMICAL ENGINEERING DIVISION
FIRE TECHNOLOGY DEPARTMENT
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**INVESTIGATION OF THE SURFACE BURNING
CHARACTERISTICS OF A NOMINAL 3.0-IN.
THICK RIGID PHENOLIC INSULATION
TRADE NAME: INSUL-PHEN (RESOLCO (1)
3.0 IN.)**

FINAL REPORT
Consisting of 5 Pages
SwRI® Project No.: 01.15209.01.010c

Test Date: September 29, 2009
Report Date: October 27, 2009

Prepared for:

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ASTM E 84 – 08a REPORT

CLIENT: RESOLCO, INC.
SWRI PROJECT NO.: 01.15209.01.010c
TEST DATE: SEPTEMBER 29, 2009
DAILY TEST NO.: 3

TEST RESULTS

FLAME SPREAD INDEX (FSI):	25
SMOKE DEVELOPED INDEX (SDI):	25

TEST DATA

UNROUNDED FSI:	25.8
UNROUNDED SDI:	27.4
FS*TIME AREA (Ft*Min):	50.2
SMOKE AREA (%*Min):	21.2
FUEL AREA (°F*Min):	5961.5

OBSERVATIONS DURING TEST

IGNITION TIME (Min:Sec):	00:09
MAXIMUM FLAME FRONT ADVANCE (Ft.):	8.4
TIME TO MAXIMUM ADVANCE (Min:Sec):	7:57
MAXIMUM TEMP. AT EXPOSED TC (°F):	765
TIME TO MAXIMUM TEMP. (Min:Sec):	10:00
TOTAL FUEL BURNED (Cu. Ft.):	55.0
DRIPPING (Min:Sec):	None
FLAMING ON FLOOR (Min:Sec):	02:15
AFTERFLAME TOP (Min:Sec):	3:00+
AFTERFLAME FLOOR (Min:Sec):	3:00+
SAGGING (Min:Sec):	06:12
DELAMINATION (Min:Sec):	None
SHRINKAGE (Min:Sec):	None
FALLOUT (Min:Sec):	00:30

CALIBRATION DATA

RED OAK SMOKE AREA (%*Min):	59.3
RED OAK FUEL AREA (°F*Min):	7766
GRC BOARD FUEL AREA (°F*Min):	5056