FIRE PREVENTION TECHNOLOGIES INC

Fort Worth, Texas 76106   FPT

Standard Test Method ASTM D3806
SPECIMENS 6mm Clear Plastic Panel

One coat of Adhesion Promoter applied to test specimen at 55 sq.ft. per can.
Three coats Flame Safe Fire Poly C-FPCC applied at 400 sq. ft per gallon, final coverage rate 133.33 sq.ft per gallon.

CALCULATION:

Calculate the experimental flame-spread rating using the following equation (ASTM D3806 Test Method):

$$F_{SE} = \frac{(L_s - L_a)}{L_R - L_a} \times F_{SR}$$

where:

F_{SE} = flame spread of specimen,

L_S = mean of three flame advance readings of specimen, inches, (8.7, 8.4, 8.4) = 8.5.

L_a = mean of three flame advance reading of zero flame-spread standard, inches, (8.5, 8.5, 8.5) = 8.5 (Cement Board)

L_R = mean of three flame advance readings of rated standard, inches, (16.5, 16.5, 16.5) = 16.5 (Red Oak)   and

F_{SR} = flame-spread rating of rated standard = 100

To Calculate Projected ASTM E84 Flame Spread Rating (based on the ASTM D3806 Test Method) use the following equation:

$F_{SE} + 4.8 \times .95 = FS_{84}$ (Round to Nearest Whole Number)

$$F_{SE} = \frac{(8.5-8.5)}{16.5 - 8.5} = \frac{0}{8} \times 100 = 0 + 4.8 \times .95 = 4.56 \text{ Round to nearest whole number}$$

Predicted E84 Flame Spread is 5

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