Nomenclature

s	Time in seconds
LOI	Limiting Oxygen Index
l_p	Pyrolysing length
V_p	Flame spread rate
$V_{p\infty}$	Pyrolysis constant spread rate
β	Coefficient of thermal expansion (k^{-1})
V	Vertical flame spread
d	Flame spread distance
T	Time of spread of flame
FR	Flame Retardant
H_b	Heat of burning in air
H_r	Rate of heat generation per unit sample width
H_c	Heat of combustion in oxygen bomb calorimeter
H_L	Percent of H_c liberated by burning in air.
LPG	Liquid petroleum gas
Ω	Injury factor/ burn damage integral
ΔE	Activation energy (6.28×10^8 J/k mol)
P	Pre-exponential term used for injury factor ($3.1 \times 10^{98} s^{-1}$)
T	Absolute temperature in K
R	Stefan Boltzmann constant (1.986 cal/mole K)
BHPT	Burn Hazard Potential Tester
T_1, T_2, T_3	Timing devices
T_4	Temperature display tutor
D1	Distance from the bottom line of the specimen to the micro burner tip at the vertical centre of the specimen
D2	Distance between micro burner tip and specimen face
T_{ig}	Time for ignition
FPR	Flame Propagation Rate
BR	Burning Rate
H_a	Heat absorbed (cal/cm^2)
Q_i	Incident Heat Flux ($cal/cm^2 s$)
AIHF60	Average Incident Heat Flux for initial 60 Seconds
TBSA	Total Body Surface Area
x	Total depth of the skin
y,z	Depth of skin in y and z directions
x_1	Depth at base of epidermis(80 μm)
x_2	Depth at base of dermis(1920 μm)
x_3	Depth at base of hypodermis (5000 μm)
ρ_1	Density of epidermis (1150 kg/m^3)

Symbol	Description
ρ_2	Density of dermis (1200 kg/m^3)
ρ_2	Density of hypodermis (1000 kg/m^3)
C_1	Specific heat of epidermis (3600 $^{\circ}$kJ/kg)
C_2	Specific heat of dermis and (2400 $^{\circ}$k J/kg)
C_3	Specific heat of hypodermis (3000 $^{\circ}$k J/kg)
C_s	Specific heat of silver plate (0.056 cal/$^{\circ}$c/gm)
C_b	Specific heat of blood (4000 $^{\circ}$C J/kg)
T_c	Temperature of core of skin at base of hypodermis (37°C)
T_s	Temperature at the surface of the skin
k_1	Thermal conductivity of epidermis (0.209 $^{\circ}$k W/m)
k_2	Thermal conductivity of dermis (0.380 $^{\circ}$k W/m)
k_3	Thermal conductivity of hypodermis (0.210 $^{\circ}$k W/m)
Q_i	External incident heat flux (k W/m^2)
Q_m	Volumetric metabolic heat flux. (420 W/m^3)
T_1	Temperature of epidermis
T_2	Temperature of dermis
T_3	Temperature of hypodermis
A_1	Cross sectional area between epidermis-dermis (cm^2)
A_2	Cross sectional area between dermis-hypodermis (cm^2)
L_1	Length of epidermis (mm)
L_2	Length of dermis (mm)
W_b	Blood profusion rate (0.5 kg/m^{3}s)
T_a	Artrial temperatute(37°C)
T_r	Room temperature
Q_{1-2}	Conduction Heat transfer relation between epidermis and dermis
Q_{2-3}	Conduction Heat transfer relation between dermis and hypodermis
SA1-SA10	Saree fabrics (Ten types of fabric material: 1 to 10)
PL	Petticoat fabrics (light)
PH	Petticoat fabrics (heavy)
B	Bra fabric
UV	Underwear fabric
B(C)	Blouse fabric (cotton)
B(PC)	Blouse fabric (polyester:cotton)
B(P)	Blouse fabric (polyester)
C-H	Carbon hydrogen bond