

EMERGENCY BLANKET

MATERIAL: **POLYESTER** **99.90% CAS No. 25-38-59-9**
ALUMINUM **0.01% CAS No. 7490-90-5**

MATERIAL GAUGE: **0.00048 inch** **12 micron** **0.0122mm**

METAL DEPOSITION: **Pure Aluminum Vacuum deposited at**
159.4 - 236.0 Angstroms.

Components are Non - Hazardous as defined by CFR 1910.1200

Property	Item	Unit	Typical Value	Test Condition	Test Method
Physical	Density	g/cc	1.4	25 deg. C	ASTM D1505
	Water Absorption Long Term - Immersion	Wt %	0.6	23 deg. C/24 hr	ASTM D570
	Water Vapor Transmission	g/m ² /24hr	48	40 deg. C 100% RH	ASTM E96
	Gas Transmission Rate O ₂	ccm/sqm/24hr	120	25 deg. C 1 atm.	ASTM D1434
	Coefficient of Friction, film - film		0.3 ~ 0.6	25 deg. C	ASTM D1894
Mechanical	Tensile Strength	Kg/mm sq.	20	25 deg. C 200mm/min	ASTM D882
	Elongation	%	100 ~ 200	25 deg. C 200mm/min	ASTM D882
	Tensile Modulus	Kg/mm sq.	400	25 deg. C 200mm/min	ASTM D882
	Impact Strength	g.cm/cm sq.	280	25 deg. C	ASTM D1709
	Bursting Strength	Kg/cm sq.	2.5		ASTM D774
	Tear Strength (Propagating)	g/mm	10		ASTM D1922
Electrical	Dielectric Strength	Kv/mm	300	25 deg C, 60 Hz	ASTM D149
	Dielectric Constant		3.2	25 deg. C 1Khz	ASTM D150
	Dielectric Dissipation factor		20 x 10 ⁻⁴	25 deg. C 1 Khz	ASTM D150
	Volume Resistivity	Ohm - cm	10 ¹⁷	25 deg. C	ASTM D257
	Surface Resistivity	Ohm/sq.	10 ¹⁶	25 deg. C	ASTM D257
Thermal	Melting Point	Deg. C	260 deg.		N.Y. Method
	Heat Shrinkage	%	1.5	150 deg. C x 30 min	ASTM D2305
	Coefficient of Linear Thermal - Expansion	cm/cm/ deg. C	3 x 10 ⁻⁵	30 deg. C ~ 50 deg. C	ASTM D 696
	Service Temperature	Deg. C	-70~ +150		
Optical	Refractive Index		1.62	250 deg. C	ASTM D542
	Total Light Transmission	%	0.3981 - 0.1259		ASTM D1003
	Haze (Metalized Film)	%		Non Applicable	ASTM D1003

Note: Polyethylene Terephthalate in less technical terms is Polyester.