



Pacific Insulation Products

"Tomorrow's Needs, Today's Products, Service Now"

Material Properties

MATERIAL PROPERTIES	TEST METHOD	UNITS	VALUES
COMPOSITE			
SURFACE BURNING FLAME SPREAD UP TO 4" SMOKE GEN. UP TO 4"	ASTM E-84		20 450
FULL SCALE FIRE TEST	UL 1715		PASS
R-VALUE (PER INCH)	ASTM C-518	hr·ft ² ·°F/BTU	7.3
CORE			
DENSITY	ASTM D-623	lb/ft ³	2.25
COMPRESSIVE STRENGTH -PARALLEL -PERPENDICULAR	ASTM D-1621	lb/in ²	31 18
COMPRESSIVE MODULUS -PARALLEL -PERPENDICULAR	ASTM D-1621	lb/in ²	721 433
K-FACTOR	ASTM C-518	BTU·in/hr·ft·°F	0.137
WATER VAPOR TRANSMISSION	ASTM E-96	perm-inch	2.27
WATER ABSORPTION (96hr IMMERSION)	ASTM D-2854	%	1.6
CLOSED CELL	ASTM D-2856	% CLOSED	92
FRIABILITY	ASTM C-421	% WEIGHT LOSS	1.8
BUTLER CHIMNEY	ASTM D-3041	% WEIGHT RETAINED	92
NBS SMOKE DENSITY	ASTM E-662		220
DIMENSIONAL STABILITY 100°F/100%RH @ 28 DAYS 158°F/100%RH @ 28 DAYS 158°F @ 28 DAYS 200°F @ 28 DAYS -20°F @ 7 DAYS	ASTM D-2126	% CHANGE % CHANGE % CHANGE % CHANGE % CHANGE	0.1 0.4 0.0 0.1 0.3
SURFACE BURNING FLAME SPREAD SMOKE GENERATION UL SUBJECT 723(FILE #R5692-6"CORE)	ASTM E-84		25 450
MIN SELF-IGNITION TEMP	ASTM D-1929-91	°F	932
MIN FLASH-IGNITION TEMP	ASTM D-1929-91	°F	698
FACINGS			
TENSILE STRENGTH	ASTM C-1136	lb/in ²	65 -195
BURSTING STRENGTH	ASTM D-774	lb/in ²	60 - 250
PUNCTURE RESISTANCE	ASTM C-1136	BEACH UNITS	85 - 650
THICKNESS	MICROMETER	in	0.008-0.01
PERMEANCE	ASTM E-96 (PROCEDURE A)	perm	0.02
MOLD RESISTANCE	ASTM C-665/C-1338		NO GROWTH
EMISSIVITY	ASTM E-408		0.02-0.8
LOW TEMP. RESISTANCE	ASTM D-1790	-40 °F (-40 °C)	NO REMAINS FLEXIBLE DELAMINATION
HIGH TEMP. RESISTANCE	ASTM D-1790	240 °F (23 °C) @ 4hr	NO REMAINS FLEXIBLE DELAMINATION
SURFACE BURNING FLAME SPREAD SMOKE GENERATION	ASTM E-84		0 - 20 0 - 50