

PRODUCT:

VBPP-360-44-RA-00

REV080514

PRODUCT DESCRIPTION: 1 inch polyester fiber absorber with reinforced aluminum facing, 1 lb/sf PVC barrier and 1 inch polyester fiber decoupler.

BARRIER

Physical Property	Description - Value	Tolerance
Material	Flexible PVC vinyl (polyvinylchloride)	
Color	Charcoal gray	
Weight	1.0 lb/sf	0.1 lb/sf
Flammability	MVSS-302	
Service Temperature	-40°F to 220°F	
Chemical Resistance	Excellent for most acids, mild alkalis, oils and grease	

POLYESTER FIBER ABSORBER

Physical Property	Description - Value	Tolerance
Material	Polyester Fiber	
Thickness*	25 mm nominal	+/- 20%
Color	White	
Density	650 g/sm	+/- 7%

* This material is specified by density not thickness. It is subject to compression and thermal set. Unloaded fiber will return to nominal thickness if subjected to moderate heat.

FACING

Physical Property	Description - Value	Test Standard
Foil	Aluminum	
Foil Thickness	0.001 inch	
Heat Seal Co-Polymer	0.00125 inch	
Reinforcement	Bi-directional 5 space per inch in MD and XD directions	
Basis Weight	23.1 lbs/1000ft ²	Scale
Caliper Thickness	0.0078 inch	Micrometer
Mullen Burst	90 psi	ASTM D774
Tensile Strength – MD	40 lbs/inch	ASTM C1136
Tensile Strength – XD	40 lbs/inch	ASTM C1136
Low Temperature Resistance	Remains flexible, no delamination	ASTM D1790 -40 °F (-40 °C)
High Temperature Resistance	Remains flexible, no delamination	401 °F (205 °C) for 10 minutes
Water Immersion	No delamination	48 hours @ 73 °F (23 °C)
Emissivity (Foil Side)	0.03	ASTM E408

FIRE AND SMOKE – PF-060-40-RA

Fire/Smoke Standard	Rating
UL-723, ASTM E84	Class A
Flame Spread Index	5
Smoke Development Index	20

VBPP-360-44-RA

Physical Property	Rating
Temperature Range	-40 ^o F to 225 ^o F continuous
Thermal Resistance ASTM C518	5.55 Hr-Ft ² -F/Btu
Composite Thickness Range*	36 mm – 57 mm

* Processing and handling can impact nominal thickness with minimal impact on product performance. The fiber components of the composite are subject to thermal and compression set. The material will rebound to nominal thickness if subject to moderate heat under no load or compression.

SOUND TRANSMISSION LOSS ASTM E90 and E413 on 1 lb/sf barrier only

Frequency (Hz)	125	250	500	1000	2000	4000	STC
TL (dB)	17	19	24	29	34	40	28

ABSORPTION COEFFICIENT AND NRC to ASTM E1050

Octave	(Hz)	<u>125</u>	<u>250</u>	<u>500</u>	<u>1000</u>	<u>2000</u>	<u>4000</u>	<u>NRC</u>
Octave	Absorp Coef	0.35	0.61	0.60	0.76	0.82	0.34	0.68

AVAILABLE SIZES

Roll	54" X 25'
Sheet	As Specified

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ASTM E1050
Normal Incidence Absorption
E1050-080514-1, VBPP-360-44-RA



