

**PRODUCT: VBPF-360-41-RA-34 REV110317**

**PRODUCT DESCRIPTION:** 1 inch polyester fiber absorber with reinforced aluminum facing, 1 lb/sf PVC barrier and 1/4 inch urethane foam decoupler with pressure sensitive adhesive.

**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	+/- 10%
Color	White	
Density	650 g/sm	+/- 7%

**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 <sup>2</sup>	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

## DECOUPLER

Physical Property	Description - Value	Tolerance	Test Standard
Material	Polyester Polyurethane Foam	NA	NA
Color	Charcoal	NA	NA
Density	2.0 lb/cf	+/- 0.1	ASTM D3574
Elongation	160%	minimum	ASTM D3574
Tensile Strength	18.0 psi	minimum	ASTM D3574
Compression Set @ 50%, 22 Hours	10% typical		ASTM D3574 Test D
Pores per inch	50-65 typical		
Flammability	MVSS302, UL-94 HF-1,		
Temperature Range	-40 F to 220 F, (-40C to 104C)	Continuous	

## PSA

Physical Property	Description - Value	Test Standard
Material	Acrylic	
Type	Unsupported	
Thickness	4 mils	
Peel Adhesion, 23 micron Polyester	71.8 oz/in	1 min Dwell, Powder-coated Aluminum
Peel Adhesion, 23 micron Polyester	64.8 oz/in	1 min Dwell, Glass
Peel Adhesion, 23 micron Polyester	64.8 oz/in	1 min Dwell, Polypropylene
Peel Adhesion, 23 micron Polyester	79.2 oz/in	24 hr Dwell, Steel
Shear Adhesion, 23 micron Polyester	500g/mm	@73 °F, 1 hr dwell, 625 mm <sup>2</sup> area
Temperature Resistance	-30 °F to 250 °F	Intermittent to 270 °F
Liner type and thickness	Paper, 3 mil	

Roll	54" X 25'
Sheet	As Specified

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