

PRODUCT: VBPF-X91-X1-NR-00 REV071723NT

PRODUCT DESCRIPTION: PVC barrier with acoustic polyester fiber absorber, 0.25-inch polyester foam decoupler layer, and black high noise reduction coefficient facing.

FACING

Physical Property	Description	Test Method			
Material	100% Polyethylene To	erephthalate			
Coating Color	Black				
Thickness	23 mil (0.58 mm)		ASTM D 5729		
Basis Weight	0.0244 lb/ft ² (1.17 N/m ²)		ASTM D3776		
Airflow Resistance	2500 rayls [Pa*s/m]		ASTM C 522		
	Machine Direction	Cross Direction			
Breaking Force	53 lb/in (600 N/cm)	42 lb/in (470 N/cm)	ASTM D 5035		
Elongation	30%	64%	ASTM D 5035		
Roll Width	75 in (190.5 cm)				
Flame Retardance	Pass		ASTM D 5123, FMVSS 302		

ABSORBER

Physical Property	Description - Value			
Material	Proprietary fire-resistant fiber blend			
Color	Grey			
Areal Weight @ 1 in thick	0.143 lb/ft ² (22.5 N/m ²) +/- 10%			
Service Temperature	-40 to 350 °F (-40 to 177 °C)			
Flammability	Passes FMVSS 302, UL HBF			
·	UL 94 HF-1 Listed			
Glow Wire Ignition temp	1292 °F (700 °C)			
Glow Wire Flam. Index	1382 °F (750 °C)			

BARRIER

Physical Property	Description - Value		
Material	Flexible Polyvinylchloride (PVC vinyl)		
Color	Charcoal Gray		
Specific Gravity	112 lb/ft ³ (1800 kg/m ³)		
Weight Range	0.5 to 2.0 lb/ft ² (2.4 to 9.8 kg/m ²) +/- 10%		
Flammability	FMVSS 302		
Service Temperature	-40 to 220 °F (-40 to 104 °C)		
Chemical Resistance	Excellent for most acids, mild alkalis, oils, and grease		



DECOUPLER

Physical Property	Description - Value				
Material	Polyester Polyurethane Foam				
Color	Charcoal				
Available Thicknesses	0.125 in (3.18 mm) - 4.0 in (102 mm)				
Density	2.00 lb/ft ³ (314 N/m ³) +/- 0.10%				
	Minimum	Average			
Tensile Strength	18.0 psi (124 kPa)	25.0 psi (172 kPa)			
Elongation	170%	220%			
Tear Resistance	2.00 lb/in (3.50 N/cm)	2.50 lb/in (4.37 N/cm)			
Compression Force Deflection 25% Deflection	0.40 psi (2.8 kPa)	0.50 psi (3.4 kPa)			
Compression Force Deflection 50% Deflection	0.45 psi (3.1 kPa)	0.60 psi (4.1 kPa)			
Compression Set @ 50%	8% maximum				
Retention of Tensile Strength after 3 hours,	70% minimum				
105°C, Steam Autoclave					
Retention of Tensile Strength after 22 hours,	70% minimum				
140°C, Dry Heat Aging					
Pores per inch	55 +/- 5				
Flammability	FMVSS 302, UL 94 HF-1				

Test Methods: ASTM-D3574-[latest revision]. Standard Methods of Testing Flexible Cellular Materials – Slab, Bonded, and Molded Urethane Foam.

ACOUSTIC PROPERTIES

Transmission Loss and STC to ASTM E 90 and E 413

For 1 lb/ft² Barrier ONLY

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

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