

PRODUCT: VBPP-X91-X1-FS-00 REV071023NT

PRODUCT DESCRIPTION: PVC barrier with acoustic polyester fiber absorber, 0.25-inch polyester fiber decoupler layer, and black fabric scrim facing.

FACING

Physical Property	Description - Value		Test Method
Material	Proprietary blend of PET/CV		
Coating	Low Density Polyethylene		
Color	Charcoal & Black		
Thickness	16 +/- 8 mil (0.4 +/- 0.2 mm)		ASTM D 5729
Total Weight	0.012 lb/ft ² (0.57 N/m ²)		
	Machine Direction	Cross Direction	
Tensile Strength	3.4 lb/in (≥6 N/cm)	4.5 lb/in (≥8 N/cm)	ASTM D 5035
Elongation	≥15%	≥25%	ASTM D 5035

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	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)

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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