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Technicon Acoustics

Vertical-lap Blended Fiber Product Line

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TECHNICON  **ACOUSTICS**
SOUND SCIENCE
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Blended Fiber – Fire-resistant Acoustical Products

PF-050 and PF-091 show significant acoustical absorption performance increases over traditional insulation materials due to their vertical lapped structure. PF-050 and PF-091 also have an elevated operating temperature of 350° F. They also pass the UL94 V0 and HF1 burn standards, giving engineers peace of mind in any acoustical application. Offered with a variety of different facings Technicon can tune the absorption properties for maximum performance in your specific application. In addition, PF-091 passes the Glow wire tests for use near electrical components.



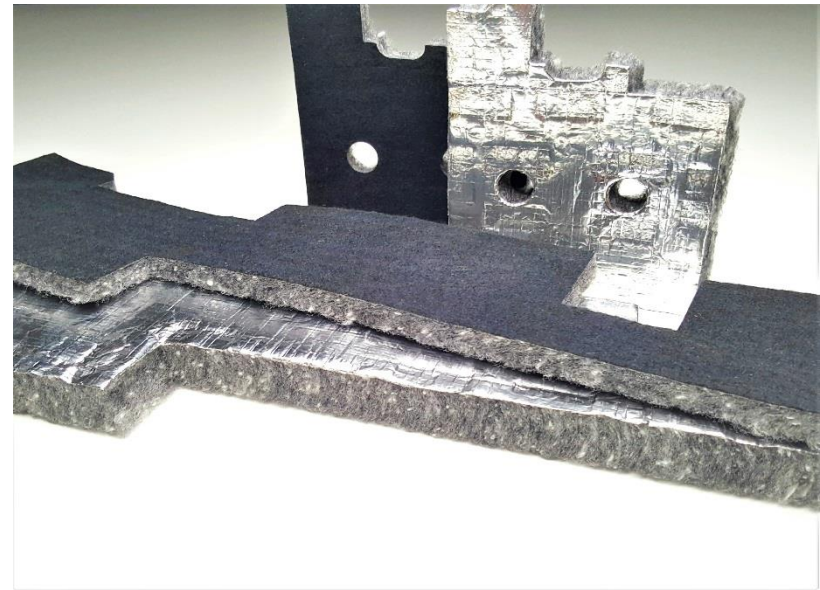
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Blended Fiber– Fire-resistant Acoustic Product Line

PF-050 and PF-091 are Technicon's newest high performance acoustical insulation materials. Made from a proprietary mix of fibers the products are moisture resistant, environmentally stable, recyclable, and most importantly fire resistant. PF-050 and PF-091 can be supplied with or without a high performance pressure sensitive adhesive for easy application to a variety of substrates.

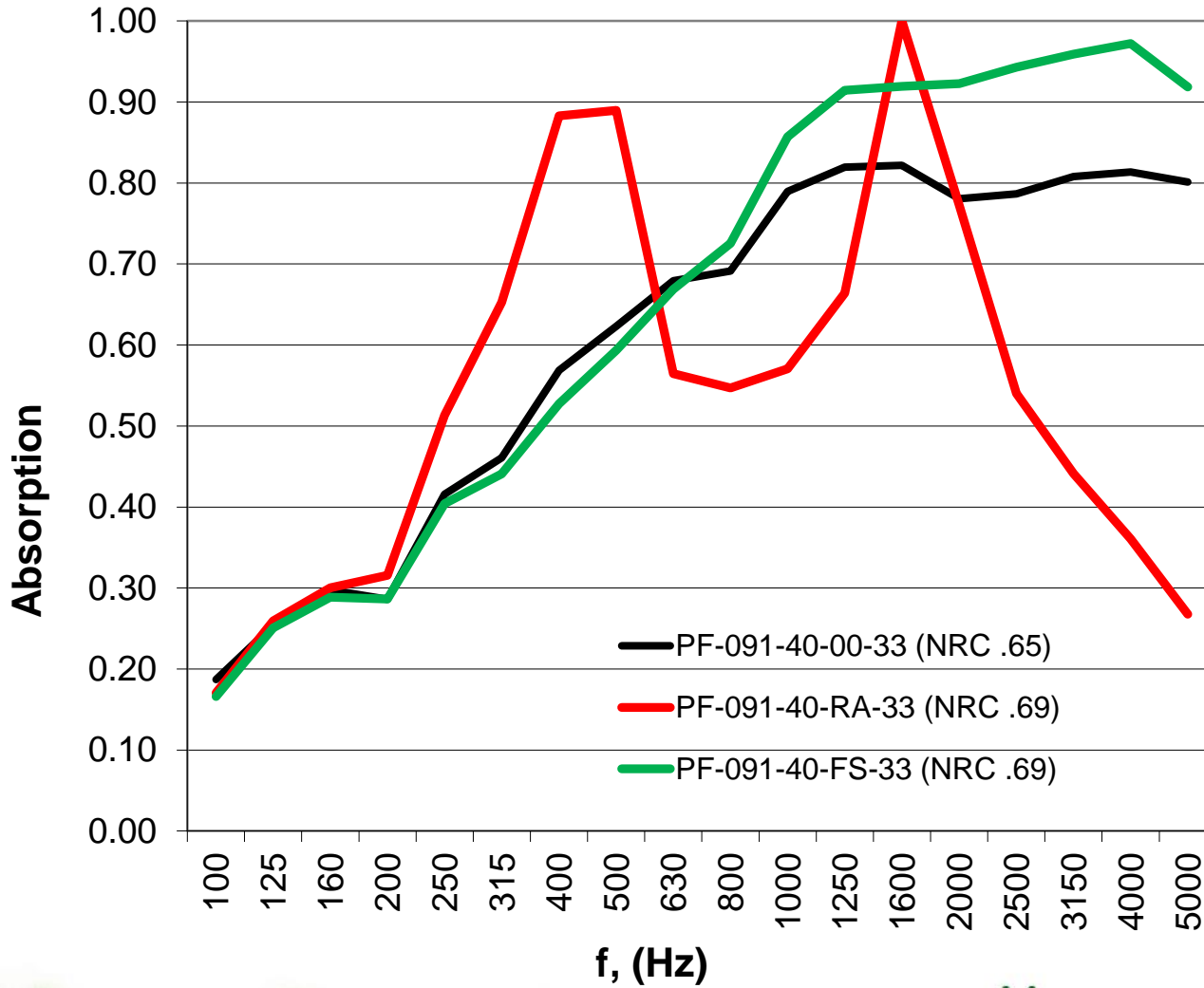
The Blended Fiber product line can be adapted to customer specifications by varying density, fiber blend, thickness, and composite configuration.



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ISO 354 Comparison of PF-091 Composites



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PF-091 UL Test Report

Material Designation:	PF-091
Color:	Gray
Expected Thickness:	6.0 - 8.0 mm
Flame Rating:	HF-1

Horizontal Burning Foamed Material Test, HF-1, HF-2							UL94 Paragraph 12	
>48hrs@23±2C/50±10%RH								
Sample #: 1910700								
#	Thk. (mm)	HF-1/HF-2 Criteria			HBF Criteria			X1
		t1 (s)	t1+t2 (s)	L1,2 (mm)	tb (s)	Lb (mm)	VBR (mm/min)	
1	7.4600	0.0	0	10.0	N/A	0.0	N/A	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined
2	7.3000	0.0	0	11.0	N/A	0.0	N/A	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined
3	7.5600	0.0	0	14.0	N/A	0.0	N/A	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined
4	7.5000	0.0	0	22.0	N/A	0.0	N/A	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined
5	7.5600	0.0	0	13.0	N/A	0.0	N/A	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined
HB Foamed Material Result: HF-1								

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PF-091 UL Test Report cont'd

Horizontal Burning Foamed Material Test, HF-1, HF-2							UL94 Paragraph 12	
168±2hrs@70±2C/ >4hrs@23±2C/ <20%RH								
Sample #: 1010701								
#	Thk. (mm)	HF-1/HF-2 Criteria			HBF Criteria			X1
		t1 (s)	t1+t2 (s)	L1,2 (mm)	tb (s)	Lb (mm)	VBR (mm/min)	
1	9.5400	0.0	0	15.0	N/A	0.0	N/A	Specimen did NOT drip; Ceased to burn before the 125 mm gauge mark; rate not determined
2	8.8400	0.0	0	20.0	N/A	0.0	N/A	Specimen did NOT drip; Ceased to burn before the 125 mm gauge mark; rate not determined
3	8.9800	0.0	0	11.0	N/A	0.0	N/A	Specimen did NOT drip; Ceased to burn before the 125 mm gauge mark; rate not determined
4	8.5400	0.0	0	19.0	N/A	0.0	N/A	Specimen did NOT drip; Ceased to burn before the 125 mm gauge mark; rate not determined
5	8.9400	0.0	0	17.0	N/A	0.0	N/A	Specimen did NOT drip; Ceased to burn before the 125 mm gauge mark; rate not determined
HB Foamed Material Result:								HF-1

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PF-050 UL Test Report

Material Designation:	PF-050
Color:	Gray
Expected Thickness:	12.0 mm
Flame Rating:	V-0

50W (20MM) VERTICAL BURNING TEST; V-0, V-1, V-2						UL94 Paragraph 8
>48hrs@23±2C/50±10%RH						
Sample #: 2099712						
#	Thk. (mm)	t1 (s)	Comments - t1	t2 (s)	t2 + t3 (s)	Comments - t2
1	12.120	3.0	Specimen did NOT drip	1.0	1.0	Specimen did NOT drip
2	12.120	3.0	Specimen did NOT drip	1.0	1.0	Specimen did NOT drip
3	12.100	4.0	Specimen did NOT drip	1.0	1.0	Specimen did NOT drip
4	12.110	2.0	Specimen did NOT drip	1.0	1.0	Specimen did NOT drip
5	12.125	3.0	Specimen did NOT drip	1.0	1.0	Specimen did NOT drip
Total Flame Time, t1+t2 (s):						20.0
Vertical Flame Result:						V-0
Note:		t1 = Afterflame Time t2 = Afterflame Time t2+t3 = Afterflame + Afterglow Time				

50W (20MM) VERTICAL BURNING TEST; V-0, V-1, V-2						UL94 Paragraph 8
168±2hrs@70±2C >4hrs@23±2C/<20%RH						
Sample #: 2099713						
#	Thk. (mm)	t1 (s)	Comments - t1	t2 (s)	t2 + t3 (s)	Comments - t2
1	12.124	4.0	Specimen did NOT drip	0.0	0.0	Specimen did NOT drip
2	12.120	3.0	Specimen did NOT drip	1.0	1.0	Specimen did NOT drip
3	12.125	3.0	Specimen did NOT drip	0.0	0.0	Specimen did NOT drip
4	12.118	2.0	Specimen did NOT drip	1.0	1.0	Specimen did NOT drip
5	12.117	3.0	Specimen did NOT drip	1.0	1.0	Specimen did NOT drip
Total Flame Time, t1+t2 (s):						18.0
Vertical Flame Result:						V-0

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Blended Fiber Overview

- Supplied in rolls, sheets, or fabricated parts
- Acoustically absorptive
- Environmentally Friendly
- UL94 HF1 Listed (PF-091)
- UL94 V-0 Tested (PF-050)
- High fire resistance
- Fiberglass and binder free
- Lightweight

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