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Self Skinning Flexible Fire Retardant Flexible Foams for Aircraft Interiors

The WSF-1121 is a tough integral skin polyurethane foam system that can be pigmented and in-mold painted for a lasting finish. The WSF-1010 foam is ideal for a flexible seal where aesthetics are important and can also be tinted and painted a variety of colors. Both of these systems are fire retardant self extinguishing foams. Either of these foam systems can be molded with a Nomex cloth reinforcement for added resiliency.

Properties	WSF-1121 typical	WSF-1010 typical	Test Methods
Molded Density (pcf)	19.4-21.9	18.5-19.6	ASTM D1622
Load Deflection @ 50% (psi)	60.3	29.7	ASTM D 3574, Test C
Compression Set (%)	8.1	3.78	ASTM D3574, Test D
Solvent Resistance	Pass	Pass	BMS 8-350
Resilience (%)	31.7	35	ASTM D3574, Test H
Tensile			
Strength (psi)	132.5	102.8	ASTM D3574, Test E
Elongation (%)	178	313	
Puncture Resistance (kg)	4	4.5	BMS 8-350
Flammability			
Extinguish Time (sec)	8.3	1.6	BSS 7230, F2
Burn Length (in)	1.7	0.8	
Drip Extinguish Time (sec)	None	None	
Steam Autoclave Aging			
Flammability			
Extinguish Time (sec)	4	2	ASTM D3574, test J1, BSS 7230, F2
Burn Length (in)	1.1	1	
Drip Extinguish Time (sec)	None	None	
Puncture Resistance (kg)	5	3.3	BMS 8-350
Load Deflection @ 50% (psi)	60.6	65.6	ASTM D 3574, Test C
Appearance	Not Degraded	Not Degraded	BSS 7230, F2
Dry Heat Aging			
Flammability			
Extinguish Time (sec)	9.2	6.2	ASTM D2126, BSS 7230, F2
Burn Length (in)	2	1.2	
Drip Extinguish Time (sec)	None	None	
Puncture Resistance (kg)	4	3	BMS 8-350
Load Deflection @ 50% (psi)	72.5	31.3	ASTM D 3574, Test C
Appearance	Not Degraded	Not Degraded	BMS 8-350