



DATA SHEET



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Silfx™ comfort foam is a non-petroleum based open-cell silicone foam that enables thinner seat cushion designs. The properties of Silfx comfort foam eliminate the need for fire blockers while providing increased durability and lasting passenger comfort.

Property	Test Method	Typical Value	Units
Physical			
Density	ASTM D 1056	3.2 (50)	pcf (kg/m ³)
Indentation Load Deflection	ASTM 3574-B1 (25% @ 4 inch)	23 (10.4)	lbf (kgf)
Compression Set (100 C)	ASTM D 1056 (22 hrs @ 50% compression)	< 5	%
Compression Set (70 C)	ASTM D 1056 (22 hrs @ 50% compression)	< 5	%
Tensile Strength	ASTM D 412	12 (83)	psi (kPa)
Elongation	ASTM D 412	45	%
Tear Resistance	ASTM D 3574-B1	0.85 (0.15)	lbf/in (N/mm)
Resiliency	Vertical Rebound	40	%
Support Factor	65% ILD/25% ILD	1.9	ratio
Height Loss	Jounce/Squirm (500,000 cycles)	< 5	%
Force (ILD) Loss	Jounce/Squirm (500,000 cycles)	< 20	%
Anti-Microbial	ASTM G21	No Growth	
Dry Cleaning Resistance	Perchloroethylene	No degradation	
Fire Safety Performance			
Vertical Burn	FAR 25.853a	PASS	
Oil Burner	FAR 25.853c	PASS	
Smoke Density	Boeing BSS 7238	PASS	
Smoke Density	ABD0031 (AITM 2.0007)	PASS	
Toxicity	ABD0031 (AITM 3.0005)	PASS	
Toxicity	BSS 7239	PASS	

Notes

- Typical values are a representation of an average value of the property for a given population of the product. For specification values contact Rogers Corporation.
- All classifications or values in reference to flame, smoke, and toxicity are presented as a result of certified Third Party testing laboratories. The specific test reports are available upon request.

The information contained in this Data Sheet is intended to assist you in designing with Rogers' High Performance silfx™ foam materials. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown on the Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers' High Performance silfx foam materials for each application. The world runs better with Rogers, the silfx logo and silfx are licensed trademarks of Rogers Corporation. ©2013 Rogers Corporation, All rights reserved. Printed in U.S.A. 0313-PDF Pub# 180-289

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