

# Sur-Sil™ LCF Silicone Foam

Sur-Sil™ LCF Silicone Foam is the go-to material for solving the toughest sealing challenges in low compression force applications. Sur-Sil™ LCF Silicone is a super soft foam that offers very high compressibility with excellent rebound at elevated temperatures. Designed for dust and vibration isolation under harsh environments. Optional pressure sensitive adhesive backings are also available.

Properties	Units	Method	LCF-CS10	LCF-CS20	LCF-CS30
Relative Firmness	Shore OO	ASTM D2240	Very Soft	Soft	Medium Soft
Color*	---	Visual	Gray	Gray	Gray
Thickness Range**	in	in	0.031 to 0.5	0.031 to 0.5	0.031 to 0.5
Density	lb/ft	ASTM D1056	16	19	22
Compression Set	%	50% Defl. @ 70C for 22hrs 50% Defl. @ 100C for 22hrs	<2% <5%	<2% <5%	<2% <5%
Compression Force	PSI	ASTM D1056 (@ 25% Def.)	1	2.5	4
Temp. Range	°C	---	-50 to 200	-50 to 200	-50 to 200
Tensile Strength	PSI	ASTM D412	18	22	29
Ultimate Elongation	%	ASTM D412	70	60	60
Water Absorption	%	Internal Method	<5	<5	<5
Flame Rating	---	UL 94	V-0	V-0	V-0

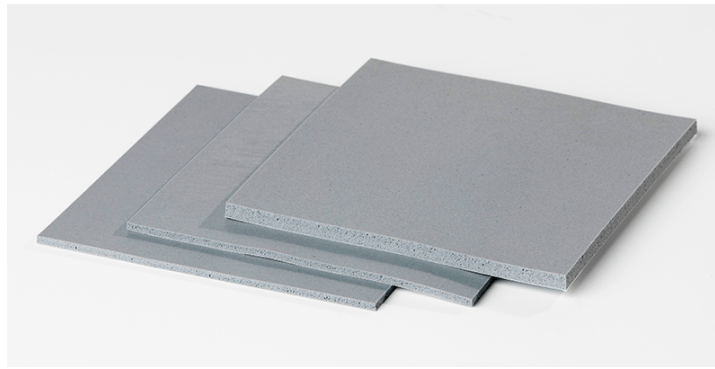


**Sur-Seal**

[www.sur-seal.com](http://www.sur-seal.com)

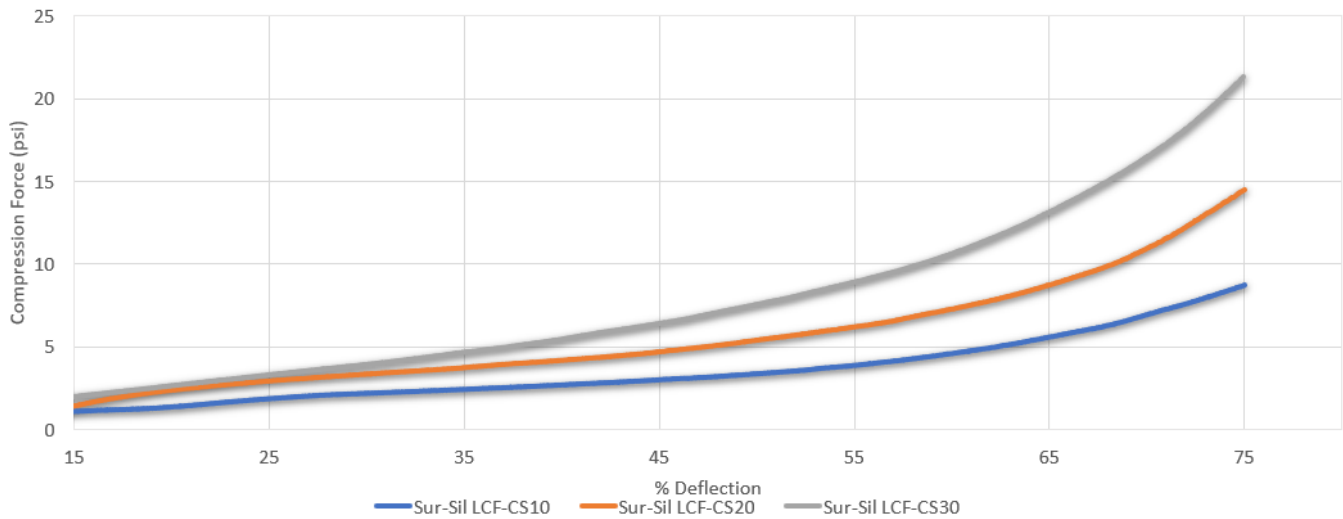
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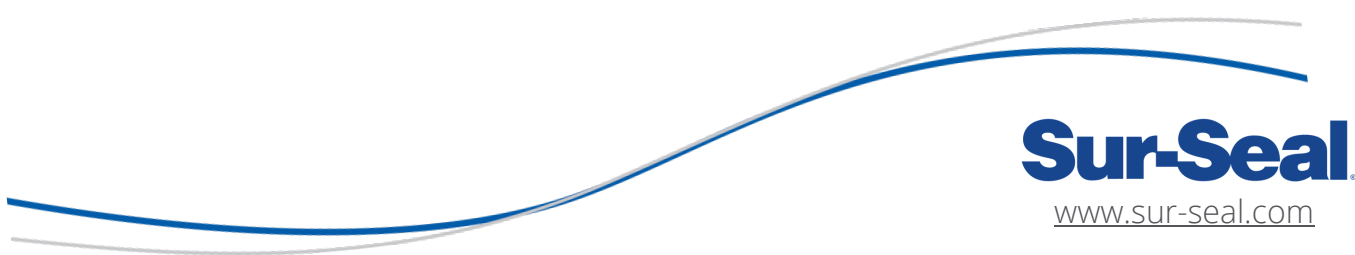


Sur-Sil LCF Silicone cellular foam is provided at various thicknesses in three different grades each with a distinct firmness to meet a wide variety of applications. Sur-Seal has the capability of measuring compression force as well as open and close cycle performance to help with real world applications.

**Compression Force vs. Deflection %**



Compression Force (psi)	Sur-Sil	Deflection %												
		15	20	25	30	35	40	45	50	55	60	65	70	75
LCF-CS10		1.1	1.4	1.9	2.2	2.5	2.7	3.1	3.4	3.9	4.6	5.6	7.0	8.8
LCF-CS20		1.5	2.4	3.0	3.4	3.8	4.2	4.7	5.4	6.2	7.3	8.8	11.0	14.5
LCF-CS30		2.0	2.7	3.3	4.0	4.7	5.5	6.4	7.6	8.9	10.6	13.2	16.5	21.3



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