

expansil™

Silicone Sponge Extrusions

US2D3

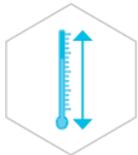
Silicone
Engineering Ltd

The expansil™ US2D range has been formulated to meet the requirements of ASTM D1056 2D1, 2D2 and 2D3.

With its extreme temperature resistance, closed cell structure and low compression set, expansil™ US2D range is commonly used in Aerospace and Defense sectors. Ideal for use as sealing profiles, cords and joined rings.



BENEFITS



Temperature range

-60°C to 230°C
(-76°F to 446°F)



Environmental resistance

Ozone, UV and weather resistant



Flame retardant

UL94HB
FAR 25/JAR 25



Long life service

vs
other elastomers

AVAILABILITY

Tubes, Cords, Profiles, Strips & Sections

Pressure Sensitive Adhesive (PSA)

Joined Rings & Gaskets

Standard Colours: Black, White, Grey, USA Red and RIOX

ACCREDITATIONS

UL94HB

UL94 Horizontal Burn
Flammability Test
(Not Listed)

FMVSS 302

Federal Motor Vehicle
Safety Standard

FAR 25/
JAR 25

Flame Test for Aerospace
Applications

WRAS
Approved

Water Regulations
Advisory Scheme

Other accreditations: REACH, RoHS and Prop 65 Compliant

Silicone
Engineering Ltd



Silicone Sponge Extrusions

US2D3



MECHANICAL PROPERTIES

Property	Units	Typical Value	Test Method
Density (*Measured on 25mm cord sample)	lb/ft ³	22	ASTM D3574
Compression Force Deflection (CFD)	psi	11.4	ASTM D1056
Compression Set 50%, 24hrs recovery, 22hrs @ 212°F	%	2.2	ASTM D1056
CFD (above) Change after heat age 22hrs @ 302°F	%	1.5	ASTM D1056
Water Absorption	%	1.5	ASTM D1056

CAPABILITIES

Thickness mm (inches)

Width mm (inches)

Length m (ft)

GENERAL CHARACTERISTICS

Test	Typical Value	Standard
Brittle Point	-80°C (112°F)	ASTM D746
Limiting Oxygen Index	24%	BS 2782 Part 1
Thermal Conductivity	6.4x10 ⁻² W.m ⁻¹ .K ⁻¹	BS 874 Part 2
Radiation Resistance	>10 ⁵ Grays (10 ⁷ Rads) typical	

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith but without warranty. This also applies where proprietary right are involved. Our advice does not release you from the obligations to check its validity and to test our products as to their suitability for the intended use. The storage, application and use of our products are beyond our control and, therefore entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale. The information contained within this data sheet is subject to change without notice.