

expansil™

Silicone Sponge Extrusions

US350

Silicone
Engineering Ltd

expansil™US350 is a medium density, closed cell silicone sponge, available in extruded parts.

Approved to Aerospace Material Specification 3195 (AMS 3195), expansil™US350 is commonly used where low compression set is required in Aerospace Defence and other industrial sectors. Ideal for high temperature seals, profiles 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: Red/Orange, White, Grey

ACCREDITATIONS

UL94HB

UL94 Horizontal Burn
Flammability Test
(Not Listed)

FMVSS 302

Federal Motor Vehicle
Safety Standard

FAR 25
(Horizontal)

Flame Test for Aerospace
Applications



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MECHANICAL PROPERTIES

Property	Units	Typical Value	Test Method
Density (*Measured on 25mm cord sample)	kg/m ³ (lb/ft ³)	320 (20)	ASTM D1056
Compression Force Deflection (CFD) 25%	KPa (psi)	50.3 (7.3)	ASTM D1056
Tensile Strength	MPa (psi)	0.7 (108)	ASTM D412
Compression Set 50%, 22hrs @ 100°C, 24hrs recovery	%	3.8	ASTM D1056
Elongation to Failure	%	120	ASTM D412
Water Absorption	%	< 3	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	

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