

expansil™

Silicone Sponge Extrusions

THT200

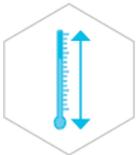
Silicone
Engineering Ltd

expansil™THT is a closed cell, extruded silicone sponge with additional high temperature resistance up to 270°C (518°F).

Formulated for use in extreme temperature applications and where high heat resistance is needed. expansil™THT range is commonly used for flexible sealing solutions, gap fillers and thermal insulation.



BENEFITS



Temperature range

-60°C to 270°C
(-76°F to 518°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, Red Iron Oxide (RIO) and 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

Capable of meeting: ASTM D1056 2A1 & 2D1; ASTM 6576 Grades B & C (Soft)

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MECHANICAL PROPERTIES

Property	Units	Typical Value	Test Method
Density (*Measured on 25mm cord sample)	kg/m ³ (lb/ft ³)	200 (12.5)	ISO 845 (ASTM D1056)
Hardness	Shore OO (Sh A)	35 (2)	ASTM D2240
Compression Force Deflection 40%	KPa (psi)	50 (7.3)	ISO 3386
Compression Force Deflection 25%	KPa (psi)	20.6 (3)	ASTM D1056
Tensile Strength	MPa (psi)	0.6 (87)	ISO 1798 (ASTM D412)
Elongation to Failure	%	140	ISO 1798 (ASTM D412)
Compression Set 50%, 24hrs recovery, 22hrs @ 70°C	%	2	ISO 1856
Compression Set 50%, 24hrs recovery, 22hrs @ 100°C	%	10	ISO 1856
Water Absorption	%	< 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	

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