

expansil™

Silicone Sponge Extrusions

GP350

Silicone
Engineering Ltd

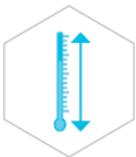
The expansil™GP range is a general purpose, closed cell silicone sponge, ideal for extrusions.

Formulated for use in extreme temperature applications and where environmental resistance is needed.

expansil™GP range is commonly used for joined gaskets, gap fillers and flexible sealing solutions.



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, RIOX 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

WRAS
Approved
N° - 2311550

Water Regulations
Advisory Scheme

Capable of meeting: ASTM D1056 2A2; AMS3195; ASTM 6576 Grades A, B & C (Soft-medium)

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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 (20.0) | ISO 845 |
| Hardness | Shore OO (Sh A) | 55 (15) | ASTM D2240 |
| Compression Force Deflection 40% | KPa (psi) | 120 (17.4) | ISO 3386 |
| Compression Force Deflection 25% | KPa (psi) | 52 (7.5) | ASTM D1056 |
| Tensile Strength | MPa (psi) | 0.75 (108) | ISO 1798 |
| Elongation to Failure | % | 120 | ISO 1798 |
| Compression Set 50%, 24hrs recovery, 22hrs @ 70°C | % | 3.6 | ISO 1856 |
| Compression Set 50%, 24hrs recovery, 22hrs @ 100°C | % | 4.4 | 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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