

expansil™

Silicone Sponge Extrusions

FDA350

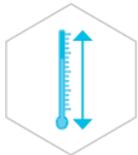
Silicone
Engineering Ltd

expansil™FDA350 is a food grade, closed cell silicone sponge, ideal for extrusions.

Formulated for the food, beverage and pharmaceutical sectors, expansil™FDA350 has been fully approved by the Food & Drug Administration for food contact. Common applications include gaskets and seals for food processing machinery, thermal insulation for liquid pipelines, gap fillers and vibration dampening.



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

Cords, Profiles, Strips & Sections
Pressure Sensitive Adhesive (PSA)
Joined Rings & Gaskets
Colours: White & Blue

ACCREDITATIONS

FDA
Approved

Food & Drug
Administration

BfR XV
Empfehlung

German Regulation for
Food Contact Materials

EC
1935/2004

EU Regulation for Food
Contact Materials

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MECHANICAL PROPERTIES

Property	Units	Typical Value	Test Method
Density (*Measured on 25mm cord sample)	kg/m ³ (lb/ft ³)	350 (21.8)	ISO 845 (ASTM D3574)
Hardness	Shore OO (Sh A)	50 - 60 (7 - 10)	ASTM D2240
Compression Force Deflection 40%	kPa (psi)	78 (11.3)	ISO 3386
Tensile Strength	MPa (psi)	0.45 (65)	ISO 1798 (ASTM D412)
Elongation to Failure	%	140	ISO 1798 (ASTM D412)
Compression Set 50%, 24hrs recovery, 22hrs @ 70°C	%	< 1	ISO 1856
Compression Set 50%, 24hrs recovery, 22hrs @ 100°C	%	< 1	ISO 1856
Water Absorption	%	< 5	ASTM D1056

CAPABILITIES

Thickness mm (inches)	Width mm (inches)	Length m (ft)
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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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