

Ecofoam- Sealant Foam



Technical Data Sheet (TDS)

Product description

Ecofoam is a closed cell polyethylene (PE) foam. The material (PE) has numerous applications due to its stable and firm nature. It is highly resilient and tough for its weight.

Ecofoam is supplied as a standard concrete grey colour, black is also available by request. The foam comes in 2 metre strips, 20mm wide unless otherwise noted.

Ecofoam is widely used in the roofing industry as eave and ridge fillers sealing out rain, dust, wind and also preventing wind noise, roof rattling and deterring pest incursion into the roof space. The product is UV stable giving excellent performance in harsh climates & does not absorb moisture.

Product Features

- ✓ Ecofoam can be made in a variety of roofing profiles. Including Corrugate, 5 Rib, 7 Rib, Trimline and many more.
- ✓ It comes in 2m strips that are 20-50mm wide.
- ✓ Firm durable foam
- ✓ Gap seal and weather sealant
- ✓ Noise and thermal insulation
- ✓ Moisture, dust and draught seal
- ✓ Pest deterrent

Product Application

- Ecofoam sealant strips are placed onto the purlins of the roof, and the steel/polycarbonate sheet is installed on top. Likewise, the strips are also placed at the top of the ridgeline iron before the ridge flashing is installed.
- It is recommended to install Ecofoam before the roof is laid, however it can be retrofitted.

Relevant Building Code Clauses

B2.2 durability- Polyethylene foam is long lasting and meets the standards in B2.

C/AS4 - In Accordance with 4.17.6.e Ecofoam is an exception to surface finish requirements as it's a seal and does not require a fire rating to meet building standards.

E2. External Moisture. E2.3.1 & E2.3.2 Ecofoam has been tested for low water absorption $\leq 0.0019 \text{ g/cm}^3$, which prevents the penetration of water to cause undue dampness and damage to the building.

Product Information

Profiled, cut and packed in Christchurch, New Zealand

Detail	Notes
Material	Close cell polyethylene foam
Density	$32 \pm 3 \text{ kg/m}^3$
Hardness	Shore C 18-25
Tensile Strength	$\geq 0.30/0.25$
Elongation Break	$\geq 110\%/100\%$



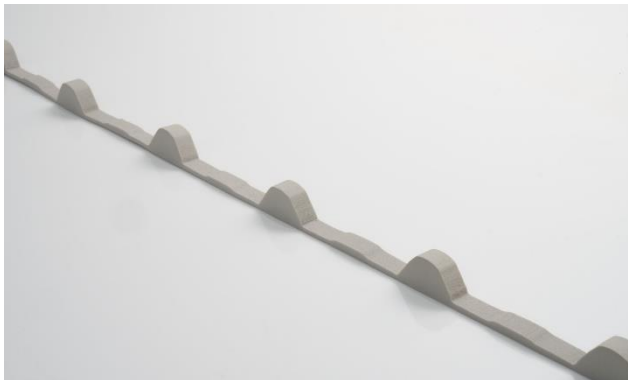
Tear Strength	≥1.5/1.25 KN/m
Puncture Resistance	>400n
Water absorption	≤0.0019 g/cm ³
Thermal conductivity	≤0.040 w/m*k
Compression Permanent Deformation	≤25%
Dimension Change rate	≤6%/6%
Resistance to Fungi	zero growth
Ozone resistance	Excellent
UV Resistance	No change in performance or appearance
Salt Resistance	No visible change in appearance
Operating temperature range	-50°C to +100°C

Fire performance:

Detail	Notes
Oxygen Index	31.50%
Average burning time:	31.8 s
Average combustion range	26.4mm
Thermal degradation temperature	200°C
Melting point	240°C
Flash point	250°C
Autoignition temperature	427°C
Flame speed	<40mm/ min
Horizontal Burning distance	<125mm
Fire rating	UL94 HBF, GB/T 8624 B2

For more information on Tetral products please visit our website at www.tetral.co.nz

Examples of Ecofoam in a range of profile cuts:



Ecofoam 5 Rib Narrow Tip



Ecofoam Corrugate



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