

Data Sheet

Absorption

DECI-FOAM[®] F Film Faced Acoustic Foam

DECI-FOAM F is ignition retardant flexible polyether polyurethane foam with a tough tear resistant polyurethane film facing.

The facing is applied by a patented[®] process, which optimises flow resistance and maximises the sound absorption. It also acts as a protective facing in environments where liquids, sprays or dust will contaminate unfaced materials.

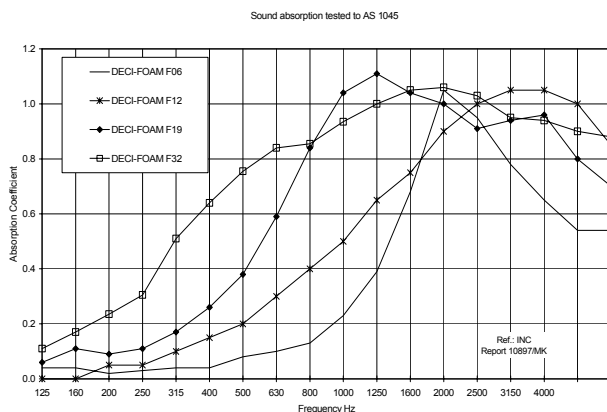
DECI-FOAM F is a premium and economical alternative to other foam materials.

DECI-FOAM F is hydrolysis resistant. It is especially suited for use in wet and humid areas. It is particularly suited for use in marine and tropical environments.

It should be selected in preference to any polyester polyurethane foam based products as these blends degrade rapidly due to the effect of hydrolysis.

***) PSA application precautions**

- Surfaces must be smooth, clean and free from grease, loose or flaking paint, dirt, and contaminants.
- Surfaces can be cleaned with a solvent based cleaner before applying the product
- Pressure should be used when applying to any surface
- Ageing trials should be performed on plasticised PVC.



FEATURES

- Maximum sound absorption for minimum thickness
- Complies with automotive fire retardancy test FMVSS 302
- Cut or moulded parts are available to customer requirements
- High performance acrylic Pressure Sensitive Adhesive **RADICAL[®]** 1253 backing*)

APPLICATIONS

- Buses, trucks and cars- engine compartment and interior sound insulation
- Machinery and equipment enclosures
- Compressor and generator set enclosures
- Air conditioners
- Electronic and electrical equipment

BENEFITS

- Long service life
- Optimum performance
- Clean to handle
- Easy to cut
- Resists liquids, dusts and sprays
- Resists hydrolysis – does not rot

STANDARD PRODUCT CODES

STANDARD PRODUCT	THICKNESS	WIDTH	ROLL LENGTH
DECI-FOAM F06BKA [†]	6mm	1500mm	120m
DECI-FOAM F12BKA	12mm	1500mm	60m
DECI-FOAM F19BKA	19mm	1500mm	30m
DECI-FOAM F31BKA	32mm	1500mm	15m

SOUND ABSORPTION (Tested to AS1045-1988)

Frequency Hz	Sound Absorption Coefficient tested to AS 1045			
	DECI-FOAM F06BK	DECI-FOAM F12BK	DECI-FOAM F19BK	DECI-FOAM F32BK
100	0.05	0.00	0.06	0.17
125	0.05	0.00	0.11	0.24
160	0.00	0.05	0.09	0.32
200	0.05	0.05	0.11	0.41
250	0.05	0.10	0.17	0.72
315	0.05	0.15	0.26	0.98
400	0.10	0.20	0.38	1.01
500	0.10	0.30	0.59	0.98
630	0.15	0.40	0.84	0.96
800	0.25	0.50	1.04	0.92
1000	0.40	0.65	1.11	0.90
1250	0.70	0.75	1.04	0.90
1600	1.05	0.90	1.00	0.93
2000	0.95	1.00	0.91	0.85
2500	0.80	1.05	0.94	0.78
3150	0.65	1.05	0.96	0.84
4000	0.55	1.00	0.80	0.78
5000	0.55	0.85	0.70	0.76
NRC (250-2000 Hz)	0.35	0.50	0.70	0.85

FLAMMABILITY PROPERTIES

MATERIAL	UL94	FMVSS-302 SAEJ369
DECI-FOAM F	HF-2	Self Extinguishing

MECHANICAL PROPERTIES

MATERIAL	DENSITY	TEAR RESISTANCE	TENSILE STRENGTH	ELONGATION
DECI-FOAM F	30kg/m ³	250N/m (min.)	0.1MPa (min.)	200% (min.)

MISCELLANEOUS PROPERTIES

MATERIAL	COLOUR	MAXIMUM SERVICE TEMPERATURE	THERMAL CONDUCTIVITY*
DECI-FOAM F	BLACK PU FILM	140C	0.033W/mC

CHEMICAL RESISTANCE

MATERIAL	ACETONE	MEK	PETROL	DIESEL	10% HCL SOLUT.	10% NaOH Solution	Carbon tetra-chloride
DECI-FOAM F	Swells *)	Swells*)	Good	Good	Poor	Very poor	Good

*) Swells and then returns to normal on drying.

NOTES: Specifications are subject to change without notice.

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose.

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