

Data Sheet

Absorption

DECI-FOAM[®]

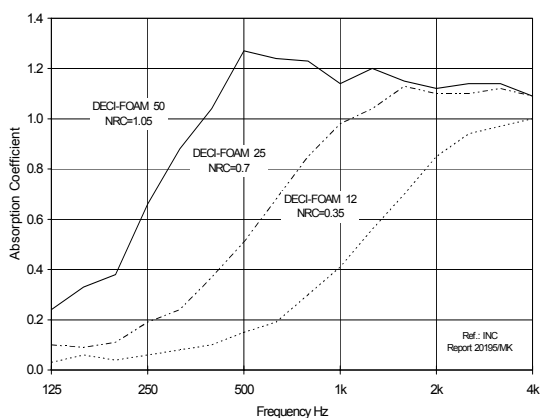
Acoustic Foam (Hydrolysis Resistant)

DECI-FOAM is an ignition retarded flexible polyether polyurethane foam.

DECI-FOAM is a premium and durable alternative to polyester polyurethane foam, which is traditionally used for sound absorption. It has controlled high flow resistance for maximum sound absorption.

DECI-FOAM 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. Polyester polyurethane foams deteriorate rapidly in these environments.

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



FEATURES

- High performance acrylic Pressure Sensitive Adhesive **RADICAL**® 1253 backing (*)
- Non adhesive option available
- Good sound absorption for minimum thickness
- Ignition retardant
- Flexible
- Easily cut, shaped, fabricated and installed
- Does not shed irritating fibres
- Cut or moulded parts are available to customer requirements

APPLICATIONS

- Machinery and equipment enclosures
- Compressor and generator set enclosures
- Acoustic infill
- Air conditioners
- Buses, trucks and cars, under-bonnet insulation and interior sound absorption
- Headlining
- Electronic and electrical equipment
- Wall and ceiling linings for plant and equipment rooms.

BENEFITS

- Long service life
- Low installation cost
- Optimum balance between performance and durability
- Clean to handle
- Easy to cut
- Resists hydrolysis - will not rot

STANDARD PRODUCT CODES

STANDARD PRODUCT	THICKNESS	WIDTH	ROLL LENGTH
DECI-FOAM 12A	12mm	1400mm	60m
DECI-FOAM 25A	25mm	1400mm	30m
DECI-FOAM 50A	50mm	1400mm	15m

· A = Self-Adhesive. Delete the 'A' if pressure sensitive is not required.

SOUND ABSORPTION (Tested to AS1045-1988 at RMIT Melbourne)

Frequency, Hz	Sound Absorption Coefficient		
	DECI-FOAM 12	DECI-FOAM 25	DECI-FOAM 50
100	0.05	0.05	0.15
125	0.05	0.10	0.25
160	0.05	0.10	0.35
200	0.05	0.10	0.40
250	0.05	0.20	0.65
315	0.10	0.25	0.90
400	0.10	0.35	1.05
500	0.15	0.50	1.25
630	0.20	0.70	1.25
800	0.30	0.85	1.25
1000	0.40	1.00	1.15
1250	0.55	1.05	1.20
1600	0.70	1.15	1.15
2000	0.85	1.10	1.10
2500	0.95	1.10	1.15
3150	1.00	1.15	1.15
4000	1.00	1.10	1.10
5000	1.05	1.10	1.10
NRC(250-2000 Hz)	0.37	0.70	1.05

FLAMMABILITY PROPERTIES

MATERIAL	MVSS-302	SAEJ369a
DECI-FOAM	Self-Extinguishing	Self-Extinguishing

MECHANICAL PROPERTIES

MATERIAL	DENSITY	TEAR RESISTANCE	TENSILE STRENGTH	ELONGATION
DECI-FOAM	28kg/m ³ ± 5%	450N/m (min.)	0.1MPa (min.)	200% (min.)

MISCELLANEOUS PROPERTIES

MATERIAL	COLOUR	RECOMMENDED MAXIMUM SERVICE TEMP.	THERMAL CONDUCTIVITY*
DECI-FOAM	GREY	140C	0.034W/mC

* The thermal conductivity is enhanced further by the addition of the film facing.

CHEMICAL RESISTANCE

MATERIAL	ACETONE	MEK	PETROL	DIESEL	10% HCL SOLUT.	10% NaOH Solution	Carbon tetra-chloride
DECI-FOAM	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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