

DECI-TEX[®] XT Automotive Acoustic Panel

DECI-TEX 3D XT is the latest generation of I.N.C. Engineered Materials unique acoustic textiles. It has optimised specific acoustic impedance and mechanical properties of rigidity and stiffness (Innovation Patent 2003100331 applies).

This thin acoustic board is designed to be used as a moulded acoustic insulator. It replaces bulky, fibreglass and felt based materials as it uses the principle of a flow resistive screen over an air space.

DECI-TEX 3D XT utilises the complex shape of typical car panels to create various shape air cavities. The air gap, enclosed between the installed DECI-TEX[®] 3D XT and the panel, combined with the matched acoustic impedance, results in outstanding sound absorption performance.

DECI-TEX 3D XT composite is manufactured using advanced materials engineering. It is readily thermoformed and undistractable up to 180°C, making it for all types of automotive acoustic applications.

The standard colour is black, however alternative colours are available subject to certain conditions.

Because of the versatility of this material, insulators moulded from DECI-TEX[®] 3D XT can include logos and aesthetic design features, in addition to design features that enhance the sound absorption.

FEATURES

Compared to standard moulded fibreglass, DECI-TEX[®] 3D XT offers:

- Reduced weight.
- 10% of thickness.
- Up to 100% more sound absorption
- Thermo-formable.
- Broad band sound absorption.
- No itchy fibres.
- Tough.
- Thermoplastic heat resistant fibre technology.

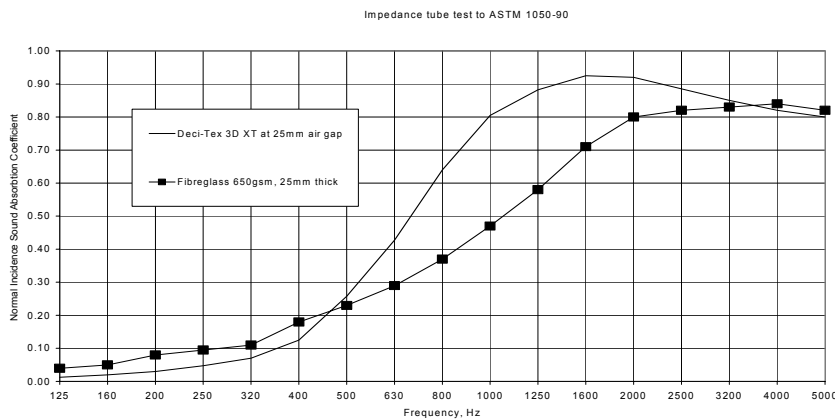
APPLICATIONS

Automotive insulators:

- Underbonnet
- Firewall
- Dash
- Trunk
- Wheel arch liner

BENEFITS

- Superior sound reduction - up to 6 dB(A).
Reduced noise levels.
- Easier to install.
- Reduced part cost.
- Reduced packaging cost.
- Reduced transport cost.
- Reduced installation cost.
- Reduced damage on-line and in transit.



STANDARD PRODUCT CODES

PRODUCT CODE	NOMINAL THICKNESS	MOULDED PARTS	BLANK SIZE
DECI-TEX 3D XT	2 ± 0.4mm	Subject to quotation	On request.

SOUND ABSORPTION

To ASTM 1050-90 / ISO/CD10534-2 – Impedance Tube Test.

FREQUENCY	NORMAL INCIDENCE SOUND ABSORPTION COEFFICIENT	
Hz	Deci-Tex 3D XT with 25mm air gap	Fibreglass 650gsm 25mm thick
125	0.01	0.04
160	0.02	0.05
200	0.03	0.08
250	0.05	0.10
320	0.07	0.11
400	0.13	0.18
500	0.26	0.23
630	0.43	0.29
800	0.64	0.37
1000	0.81	0.47
1250	0.88	0.58
1600	0.93	0.71
2000	0.92	0.80
2500	0.89	0.82
3200	0.85	0.83
4000	0.82	0.84
5000	0.80	0.82
NRC	0.50	0.40

MISCELLANEOUS PROPERTIES

Colour	Temperature resistance.	Continuous operating temperature	Flammability to MVSS-302	Chemical resistance
Black is standard, other colours by request.	-40 to 180C	120C	Self-extinguishing Burn rate less than 80mm/minute	Excellent

TOXICOLOGY, HEALTH AND SAFETY

Non-toxic and safe to handle without protective clothing or respiration apparatus.

NOTE: Products are always under continual improvement, therefore, specifications are subject to change without notice. Data is indicative of typical or average values obtained from laboratory and field testing and should not be used for specification purposes without consulting I.N.C. Corporation Pty Ltd. Verification under intended service condition, or against specific OE Specifications is suggested, prior to specification.



**Commercial
In
Confidence**

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