

## DECI-TEX® BT Automotive Acoustic Panel

DECI-TEX® BT is the latest generation of I.N.C. Engineered Materials unique acoustic textiles. It has optimised specific acoustic impedance and exhibits good mechanical rigidity and stiffness.

This high performance acoustic and thermal material is primarily designed as a base material to form moulded acoustic insulator parts via a thermoforming process. However, unformed DECI-TEX® BT can be used alone, in applications requiring a lofted blanket with elevated temperature performance.

DECI-TEX® BT is manufactured using advanced materials. It is capable of surviving thermal excursions up to 180°C, making it suitable many elevated temperature applications. For continuous use above 120°C it is important to test the material in a simulated environment to determine suitability. DECI-TEX® BT has been tested for extended periods at 160°C without injury to the product.

The standard colour of the material is black.

### FEATURES

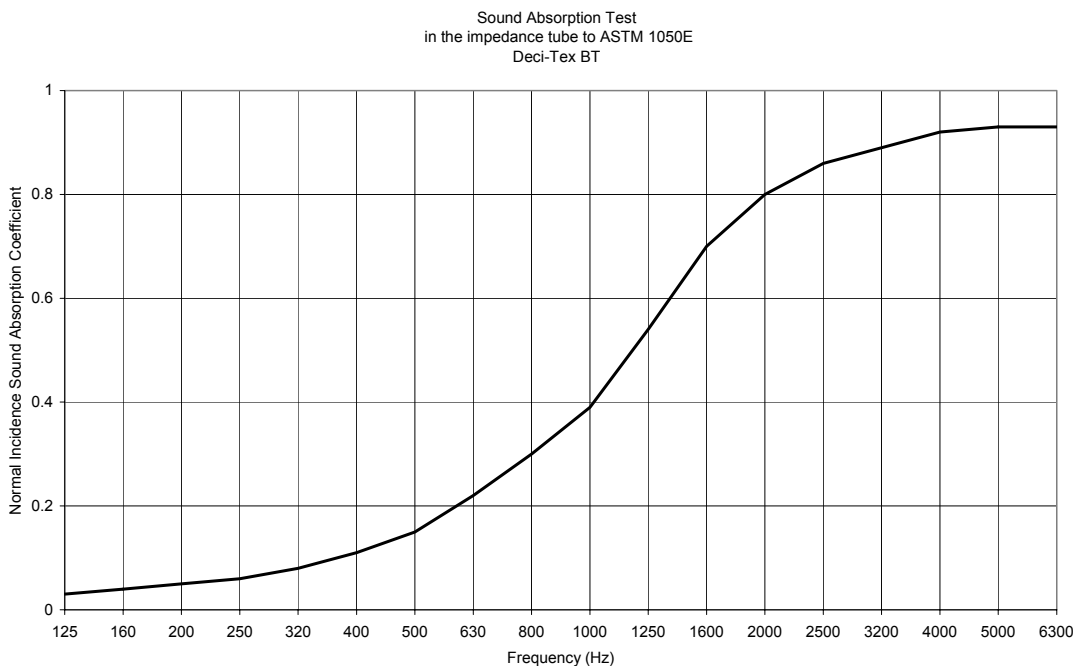
- Light weight.
- Reduced noise transmitted to the cabin
- Reduced pass-by noise
- Thermoformable
- Diesel fuel/oil resistant
- High Environmental resistance
- Mechanically tough

### APPLICATIONS

- Underbonnet insulator
- Firewall insulator
- Dash inner/outer insulator

### BENEFITS

- Quick design/prototype processing
- Inexpensive tooling
- Inexpensive tool modification
- Low energy consumption for moulding.
- Suitable for elevated temperature applications.



PRODUCT CODE	NOMINAL THICKNESS	BLANK SIZE
DECI-TEX BT	25 ± 2mm or as required by customer	On request.

## SOUND ABSORPTION

FREQUENCY	Acoustic Properties
Hz	Deci-Tex BT Sound Absorption
125	0.03
160	0.04
200	0.05
250	0.06
320	0.08
400	0.11
500	0.15
630	0.22
800	0.30
1000	0.39
1250	0.54
1600	0.70
2000	0.80
2500	0.86
3200	0.89
4000	0.92
5000	0.93
6300	0.93
NRC	0.35

## MISCELLANEOUS PROPERTIES

Colour	Temperature resistance.	Continuous operating temperature	THERMAL Resistance R'	Flammability to MVSS-302	Chemical resistance
Black is standard	-40 to 180C	120C	0.4m <sup>2</sup> K/W	Self-extinguishing	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.



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