



High Performance Glass Cloth Faced Sound Absorber



Sorberpoly™ 3DV GC has been developed using special high temperature fibres to meet tougher fire standard that challenge us today.

The special fibres perform well under continuous high temperature applications, when exposed to flame they will not drip, have a high limited oxygen index, excellent thermal conductivity properties, tensile strength, and excellent resistances to chemical attack.

Sorberpoly 3DV CG is faced with Glass Cloth. The use of a glass cloth face enhances mid to low frequency absorption and provides additional protection from mechanical damage and dirt, oil and liquid ingress. It also enhances the fire and thermal insulation performance.

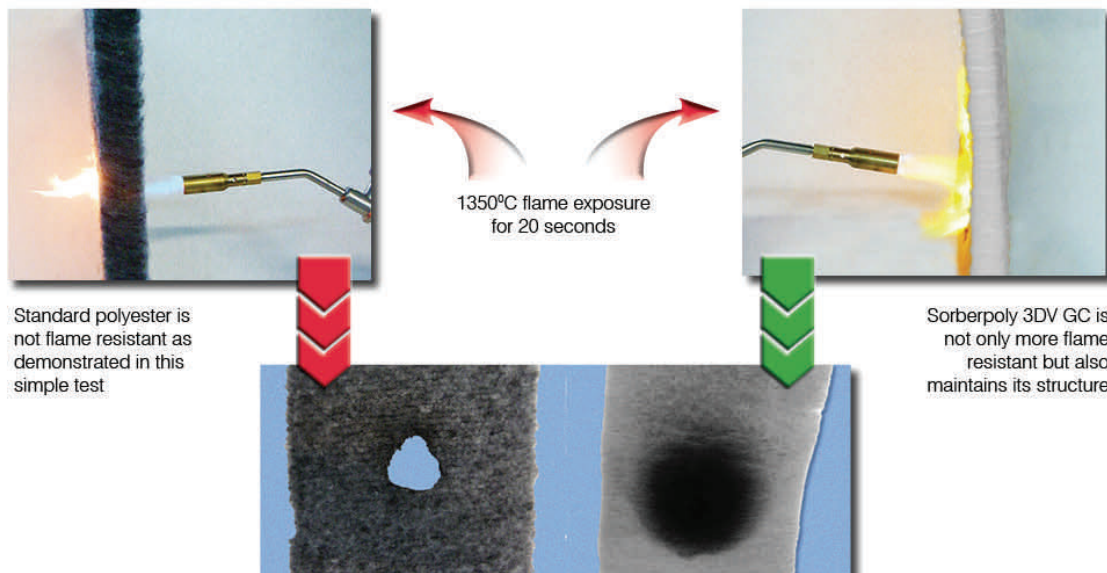
The unique fibre used to manufacture **Sorberpoly 3DV GC** not only exhibits excellent fire resistance it is an, economic, light-weight, high performance, sound absorbing insulation.

FEATURES & BENEFITS

- Premium sound absorption properties
- Higher NRC/wght ratio than competitors product
- Chars and self extinguishes—will not burn
- Non wicking, does not hold water
- Does not drip, nor support mildew growth or development of odours
- Lightweight with high sound absorption properties
- Non-toxic, non-irritant and non-allergenic
- Long-term stability and performance
- Environmentally friendly - recyclable
- Manufactured using no resin binders—low VOC's
- Based on viscous FR fibres
- Self adhesive backing option
- Can be used as an acoustic foam replacement in areas subject to high humidity and condensing moisture
- Other colours available on request

APPLICATIONS

- Rail carriages
- Rolling stock
- Mass transit
- Buses, trucks and heavy equipment
- Machinery and equipment enclosures
- Compressor and generator set enclosures



Refer to our website www.pyroteknc.com to check you have the latest information page

FLAMMABILITY PROPERTIES

TEST METHOD	INDEX	RESULTS	DESCRIPTION
DIN 5510-2.2009-05	4.2 flammability class 4.3 smoke production class 4.4 flaming droplets/particles class	S5 SR2 ST2	German standard of product burning behaviour for rail-way vehicles.
UL94	Self-extinguishing < 2 secs and after-glow < 30 secs. Cotton wool indicator placed under sample is not ignited by burning drips	HF1	Horizontal burn test for foam materials. Complies
FMVSS-302	Burn Rate - mm/min	Self Extinguishing	FMVSS-302 specifies burn resistance requirements of materials.

STANDARD PRODUCT CODES

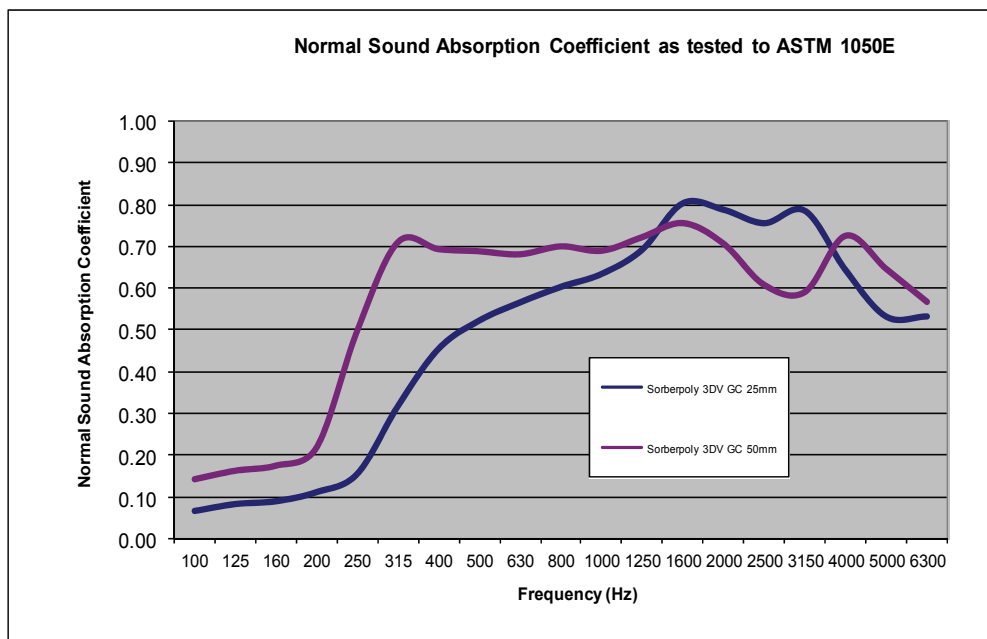
STANDARD PRODUCT	THICKNESS	DENSITY	ROLL LENGTH
Sorberpoly 3DV GC14	14mm	24kg/m ³	30m
Sorberpoly 3DV GC25	25mm	24kg/m ³	30m
Sorberpoly 3DV GC50	50mm	24kg/m ³	15m

Sorberpoly 3D is manufactured to a nominal thickness only. Typical thickness variations are ± 2mm

MISCELLANEOUS PROPERTIES

RECOMMENDED MAXIMUM SERVICE TEMPERATURE	CHEMICAL RESISTANCE	MOISTURE ABSORPTION
130°C	Excellent	<0.03% by vol. At 50°C, 90% RH (for 4 days or more).

ACOUSTIC PERFORMANCE



Frequency (Hz)	25mm	50mm
100	0.06	0.14
125	0.08	0.16
160	0.09	0.17
200	0.11	0.22
250	0.15	0.50
315	0.32	0.71
400	0.45	0.69
500	0.52	0.69
630	0.57	0.68
800	0.60	0.70
1000	0.63	0.69
1250	0.69	0.72
1600	0.80	0.76
2000	0.79	0.71
2500	0.76	0.61
3150	0.79	0.59
4000	0.64	0.73
5000	0.53	0.65
6300	0.53	0.57
NRC (250-2000)	0.52	0.65

NOTES: Specifications are subject to change without notice. The data listed in this document is typical of 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. The conclusions drawn from acoustic test results are as interpreted in writing by qualified independent testing authorities, where possible. Even so, always seek the opinion of your own acoustic engineer as to the meaning of any data presented by the manufacturer as it is applied to any given project or use.

DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See www.pyroteknc.com/disclaimer.

AUSTRALIA 1300 928 322 (1300 WAVEBAR) +61(0)2 8868 2088	CHINA +86(0)755 8601 6449 HONG KONG +852 2548 4443	CZECH REPUBLIC +420 516 527 195 +420 725 373 966	DUBAI +971 (50) 624 9254 INDIA +91 2137 668 052	NEW ZEALAND 0800 226 878 427 (0800 ACOUSTICS) +64(0)9 272 2056	TAIWAN +886 6 313 1267 INDONESIA +62 81 1889 1917	UNITED KINGDOM +44(0)1908 561155 TURKEY +90 212 230 3033	USA +1 509 991 8548 +1 856 816 0194
---	---	---	--	--	--	---	--

