



General Description – SS 280-25H

SS 280-25H acoustic insulation material. It is made by melt blowing micro - fiber including diameter 2-4 micron superfine fiber (Polypropylene) and 20-30 micron staple fibers (Polyester). The product has good performances of acoustic insulation meanwhile; it has more characteristics as environmental, lightweight, hydrophobic, compressible, flexible installation etc. It is widely used in many fields, such as automobile, high speed train, tube project, ship, yacht, air plane, aviation & spaceflight, household appliance, office equipment, machine, laboratory, piano room, cinema, meeting room, building & decoration, equipment sound insulation, workshop etc.

General Construction

The web is composed of 55% polyester staple fibers, and 45% polypropylene fibers. The polypropylene fibers are extremely fine, producing the high-energy absorption characteristic with the low weight. The polyester fibers are added to strengthen the web. The scrim attached to both sides is a 100% polypropylene non-woven fabric.

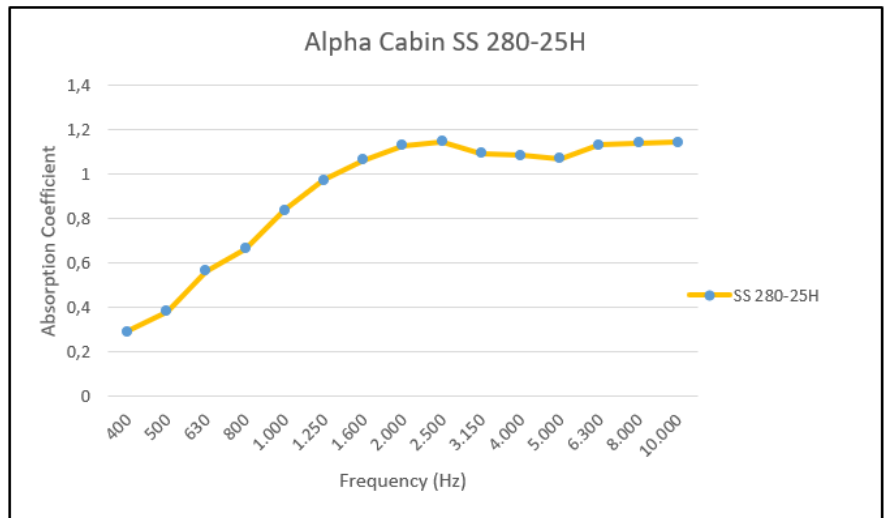
Special Characteristics

It is conformable to accommodate the irregular spaces behind trim panels, headliners and instrument panels. Fills voids to help reduce unwanted noise from travelling throughout the vehicle. It can be processed by conventional techniques such as die-cutting and heat sealing. Attaching to trim panels is recommended, preferably using ultrasonic or heat spot welding, but adhesives (transfer tapes or hot melt) may also be used. Not recommended for applications where temperatures will be above 120°C.

General Properties	
Composition Web	55% Polypropylene + 45% Polyester
Composition Scrim	One side White Black, Other Side White Fabric
Color	Both sides white scrim
Material Thickness	25mm ± 2mm
Material Weight	280 ± 10 g/m ²
Density	10.0 Kg/m ³
Flammability	0 mm /min (A-0)
Heat aging	120°C for 2000 Hours
Tensile Strength	MD: 9.0-10.0 N CD: 10.0-12.0 N
Moisture Content	0.4 %
Heat Conductivit	0.050 W/m·K

Acoustical Properties – Alpha Cabin

Frequency [Hz]	SS 280-25H
	SS 280-25H
400	0,292
500	0,383
630	0,565
800	0,664
1.000	0,836
1.250	0,971
1.600	1,062
2.000	1,129
2.500	1,147
3.150	1,092
4.000	1,084
5.000	1,068
6.300	1,130
8.000	1,141
10.000	1,143



Acoustical Properties - Impedance Tube

Frequency [Hz]	SS 280-25H
	SS 280-25H
160	0,052
200	0,061
250	0,073
315	0,083
400	0,127
500	0,156
630	0,214
800	0,322
1.000	0,451
1.250	0,590
1.600	0,759
2.000	0,875
2.500	0,923
3.150	0,901
4.000	0,834
5.000	0,788
6.000	0,866

