

## Akusti 26-FR



### PHYSICAL PROPERTIES

	Unit	Standard	Value
Density	kg/m <sup>3</sup>	ISO 845	26 ±2
Hardness	N	ISO 2439	145 ± % 15
Tensile Strength	N/mm <sup>2</sup>	ISO 1798	0.11 ±0.02
Elongation at Break	%	ASTM D 3574	250 ± 50
Tearing Strength	N/cm	ASTM D 3574	4.0 ± 0.5
Elasticity	%	ASTM D 3574	45 ± 5
Flame Behavior		MVSS 302	SE

### DESCRIPTION

Product is polyurethane based and has a density of 26 Kg/m<sup>3</sup>. Due to its' open cell structure it has good sound absorption values in high frequencies.

Flame behavior of the product is class SE according to MVSS 302 standard. It is providing economical solution in Automotive, White Good Industry and other noisy machines such as Power Generators and Compressors when used in different shapes and forms.

It can be cutted to viol and pyramidal shapes. Fabrics and special pu films can be applied on the surface of foam and self adhesive tape can be applied on the foam.

**Akustifoam Teknik Sünger San. Ve Tic. Ltd. Şti.**

Ortaköy Sanayi Bölgesi Harput Sok. No:8 Selimpaşa, Silivri, İstanbul

Tel: +90 0212 875 49 71 | Fax: +90 212 875 70 17 | info@akustifoam.com | www.akustifoam.com

# Alpha Cabin Measurements : Absorption



Project : Sound Absorbtion

Part : 26 FR Piramit

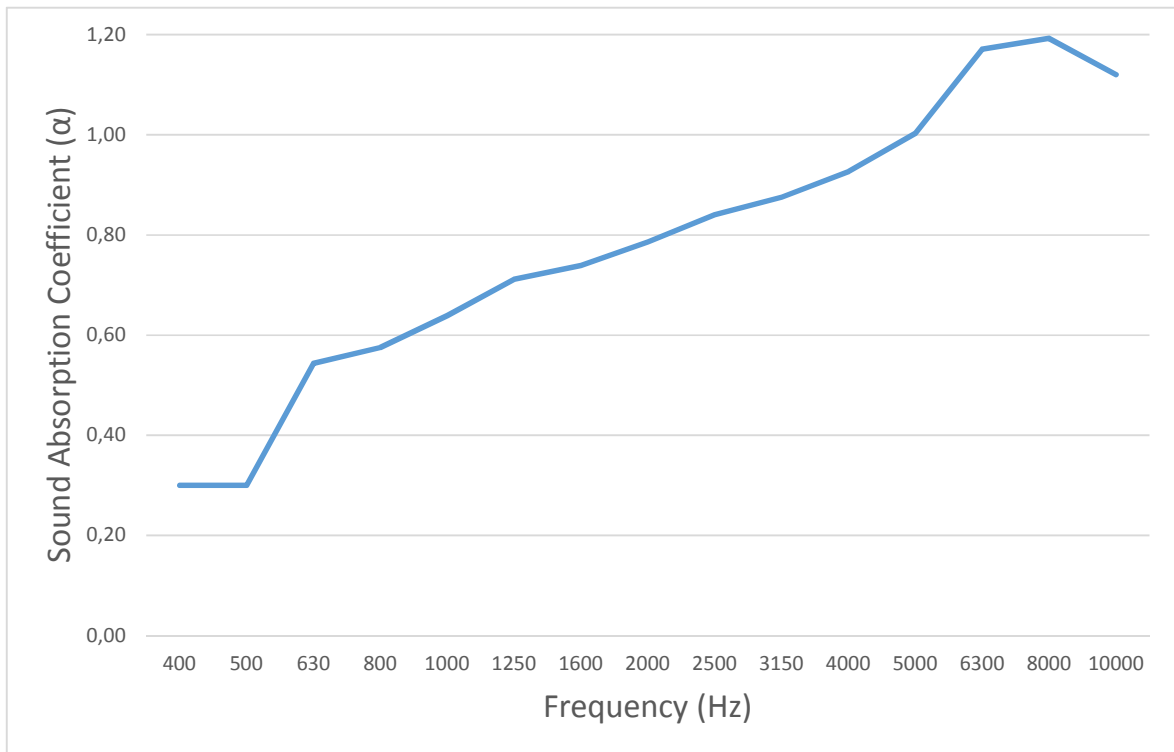
Part Description : 26 FR Piramit 3-3-4

Frequency (Hz)	Alpha1	Alpha2	Alpha3	Alpha( $\alpha$ ) Average
400	0,83	0,96	0,85	0,30
500	0,79	0,80	0,99	0,30
630	0,81	0,77	0,63	0,54
800	0,89	0,86	0,70	0,58
1000	0,86	0,83	0,73	0,64
1250	0,79	0,81	0,64	0,71
1600	0,77	0,73	0,62	0,74
2000	0,72	0,74	0,59	0,79
2500	0,69	0,68	0,56	0,84
3150	0,64	0,62	0,54	0,88
4000	0,60	0,61	0,49	0,93
5000	0,54	0,54	0,44	1,00
6300	0,47	0,45	0,39	1,17
8000	0,42	0,42	0,34	1,19
10000	0,42	0,45	0,33	1,12

$\alpha_w$	0.70 (C)
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$\alpha_w$	Sound Absorption Class
0.90-1.00	A
0.80-0.85	B
0.60-0.75	C
0.30-0.55	D
0.15-0.25	E
0.00-0.10	Not Classified

Surface Area (m<sup>2</sup>) : 1,2m  
 Static Pressure (Pa) : 101350  
 Humidity (%) : 38,8  
 Temperature (°C) : 21



Customer :  
Akustifoam

Report Number :  
Report 12

Operator :  
M. Yaman

Printout Date : 2019-11-19

Time : 12:59:03

Evaluation

0/0

# Alpha Cabin Measurements : Absorption



Project : Sound Absorbtion

Part : 26 FR Piramit

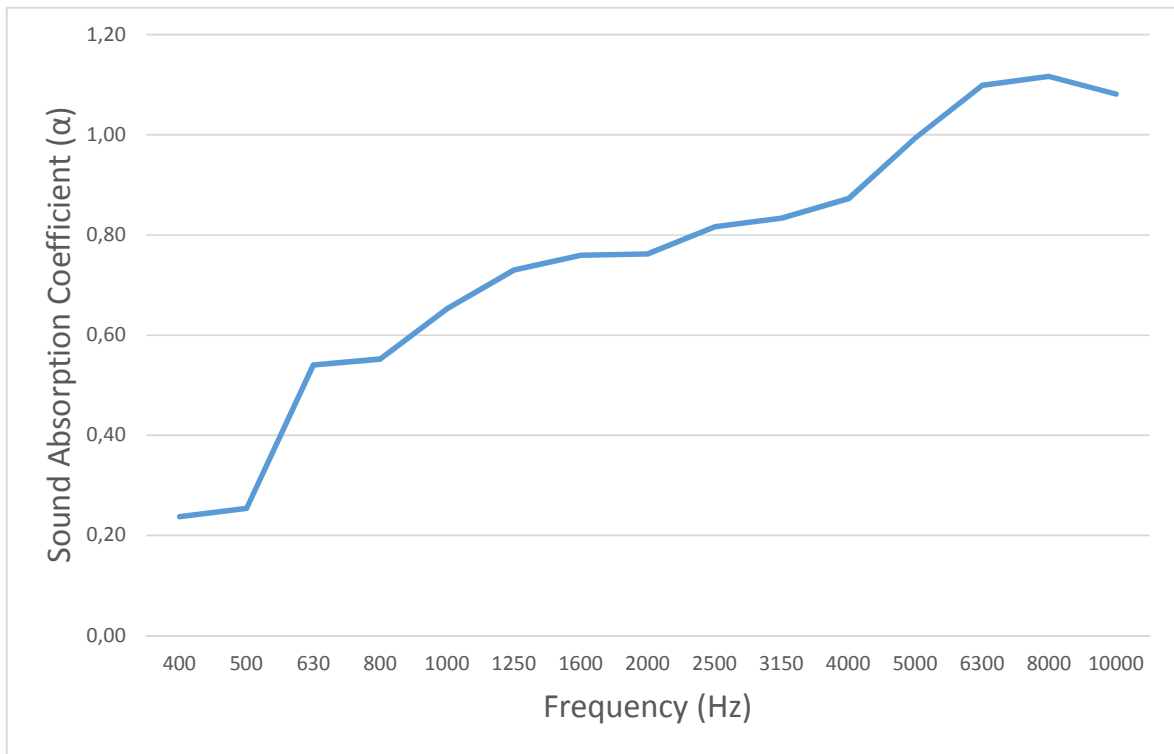
Part Description : 26 FR Piramit 4-4-5

Frequency (Hz)	Alpha1	Alpha2	Alpha3	Alpha( $\alpha$ ) Average
400	0,96	1,05	0,87	0,24
500	1,12	0,87	0,74	0,25
630	0,77	0,73	0,72	0,54
800	0,85	0,84	0,83	0,55
1000	0,80	0,77	0,81	0,65
1250	0,73	0,72	0,75	0,73
1600	0,72	0,68	0,69	0,76
2000	0,68	0,72	0,70	0,76
2500	0,65	0,65	0,66	0,82
3150	0,62	0,63	0,62	0,83
4000	0,59	0,60	0,57	0,87
5000	0,51	0,51	0,51	0,99
6300	0,45	0,45	0,46	1,10
8000	0,41	0,41	0,41	1,12
10000	0,39	0,40	0,43	1,08

$\alpha_w$	0.68 (C)
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$\alpha_w$	Sound Absorption Class
0.90-1.00	A
0.80-0.85	B
0.60-0.75	C
0.30-0.55	D
0.15-0.25	E
0.00-0.10	Not Classified

Surface Area (m<sup>2</sup>) : 1,2m  
 Static Pressure (Pa) : 101350  
 Humidity (%) : 39  
 Temperature (°C) : 22



Customer :  
Akustifoam

Report Number :  
Report 13

Operator :  
M. Yaman

Printout Date : 2019-11-19

Time : 13:17:01

Evaluation

0/0

# Alpha Cabin Measurements : Absorption



Project : Sound Absorbtion

Part : Viyol

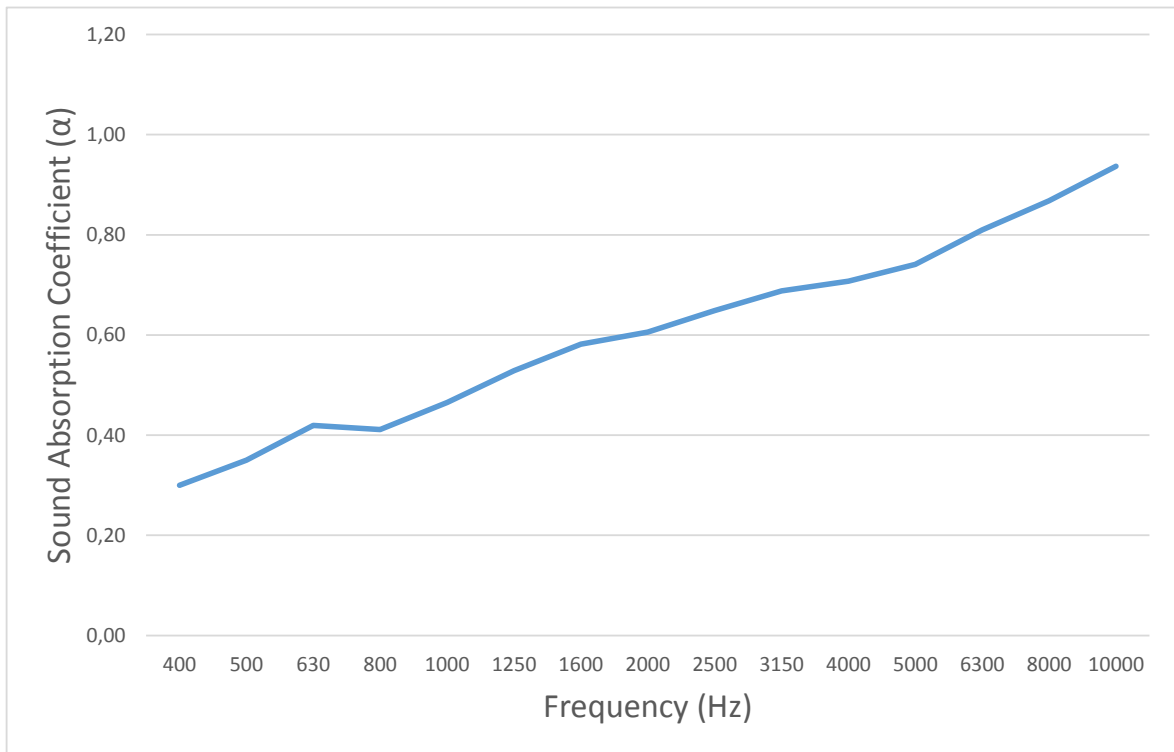
Part Description : Viyol 40/20

Frequency (Hz)	Alpha1	Alpha2	Alpha3	Alpha( $\alpha$ ) Average
400	0,91	0,90	0,83	0,30
500	0,70	0,92	0,77	0,35
630	0,80	0,77	0,75	0,42
800	0,84	0,89	0,87	0,41
1000	0,92	0,88	0,89	0,47
1250	0,82	0,82	0,77	0,53
1600	0,77	0,77	0,76	0,58
2000	0,78	0,76	0,75	0,61
2500	0,71	0,71	0,73	0,65
3150	0,68	0,68	0,68	0,69
4000	0,64	0,64	0,64	0,71
5000	0,57	0,57	0,58	0,74
6300	0,51	0,51	0,51	0,81
8000	0,45	0,44	0,44	0,87
10000	0,46	0,44	0,42	0,94

$\alpha_w$	0.65 (C)
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$\alpha_w$	Sound Absorption Class
0.90-1.00	A
0.80-0.85	B
0.60-0.75	C
0.30-0.55	D
0.15-0.25	E
0.00-0.10	Not Classified

Surface Area (m<sup>2</sup>) : 1,2m  
 Static Pressure (Pa) : 101350  
 Humidity (%) : 40  
 Temperature (°C) : 20



Customer :

Akustifoam

Report Number :

Report 10

Operator :

M. Yaman

Printout Date : 2019-11-19

Time : 10:15:47

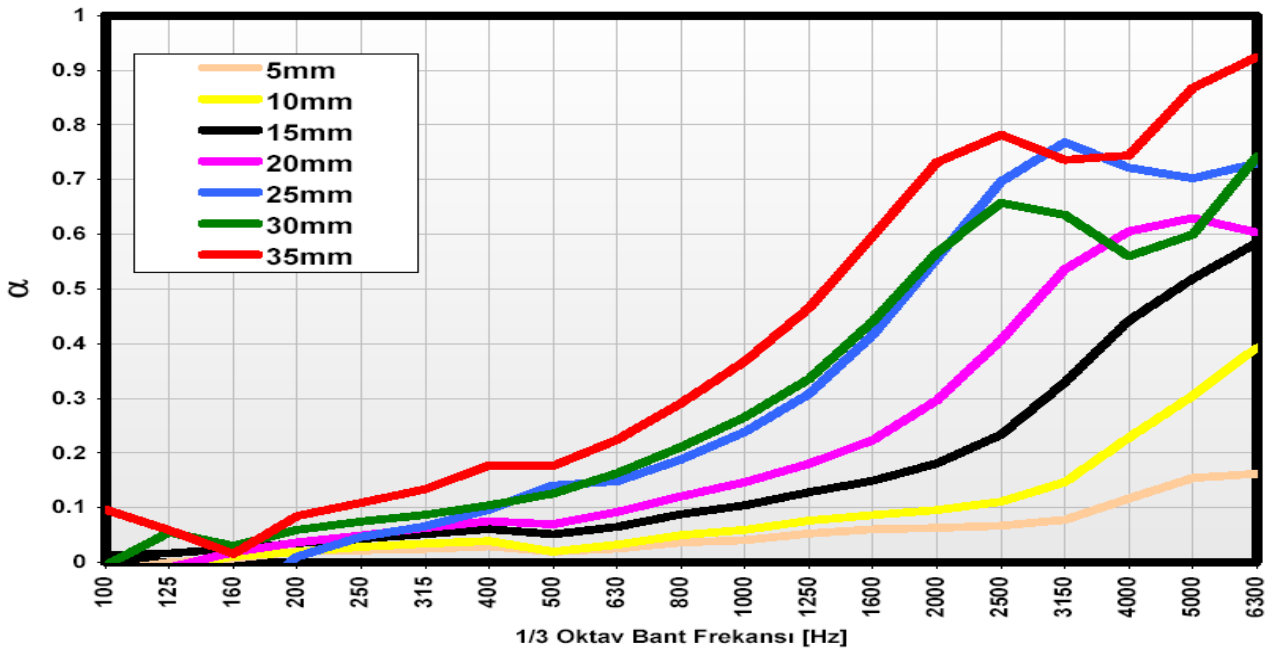
Evaluation

0/0

## AKUSTICELL-SEA

Akusticell-SEA, a high density acoustic insulation material, is made of polyurethane foam.

### SOUND ABSORPTION COEFFICIENT GRAPH



### PHYSICAL CHARACTERISTICS

	Unit	Value	Standard
Color	-	Black	-
Density	kg/ m3	50-60kg/m3	ISO 1855
Hardness	N	>120	ISO 2439 (ILD % 40)
Tensile Strength	kpa	>65	ISO 1798
Elongation at Break	%	>60	ISO1798
Flame Behavior	--	SE	MVSS 302
Working Tempreture	°C	150	

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## AREA OF USE

It is used in plain or different forms in automotive, construction, marine industry, air conditioning and general industry such as Generator and Air compressor industry.

## COMPOSITS

Akusticell-SEA becomes a decorative material when dyed in different colors or faced with fabrics. This feature makes the product ideal for acoustic arrangement and sound insulation in the construction sector. Akusticell-SEA can also be faced with Pu foil for protecting material in the environments where foreign effects such as oil, water, dust and humidity are present.



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