

# ILUMIYO ACOUSIC

ACOUSIC LED LIGHT-2022

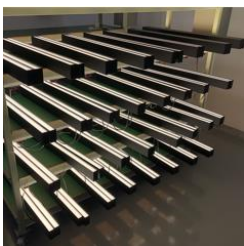
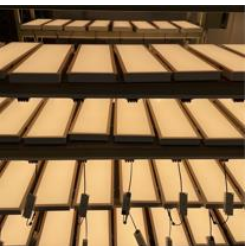


ILUMIYO LLC

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## About ILUMIYO

ILUMIYO LLC we are professional led manufacturing company in New Jersey. ILUMIYO specializes in producing beautiful, sustainable, energy efficient and practical solutions for all kinds of projects. Projects include interior and exterior spaces for – academic facilities, airport, corporate headquarters, medical facilities, lobbies, multi-family buildings, parks, retail, religious institutions and hospitality spaces.

We are professional production on LED linear Lighting , LED Panel light, LED Grille light. We focus on improving the light effect, energy saving, safety and exterior of LED lights.

Our Business : LED Linear light/ LED Panel light / Linear LED Grille light / Linear High Bay light . Now we add the Acoustic for led light, is popular for LED designer.

### Application

IP20, IP40 for indoor lighting:

Office/ home/ School/ Supermarket/ Hospital/ Restaurant/ 4S shop, etc.

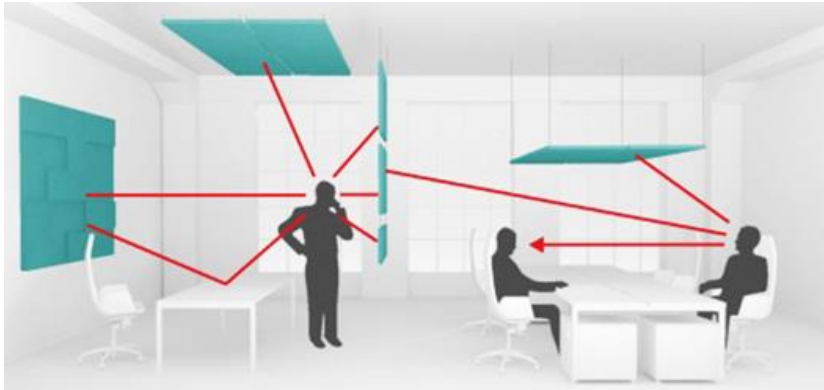
IP65 for outdoor and indoor lighting

**For more information about our company and products, please visit our website [WWW.ILUMIYO.com](http://WWW.ILUMIYO.com)**



## Without Acoustic product

Open offices, schools, libraries, restaurants, hotels and other public places exposure, hearing protection may be required. Inadequate hearing protection or prolonged exposure to noise can result in either temporary or permanent hearing



## With Acoustic product

This Suspended Panel have elegant surface and delicate texture, can hang in any space. Cooperate with led light, lighting showing stereoscopic appearance can creat unique ceiling that express whole and architectu dsign the panels are widely used im cinema meeting rooms music. Achieve decorative and sound absorbing effectsy

## SOUND ABSORPTION

By using acoustical absorbing materials and sound trapping strategies such as the Helm-holtz resonance principal, we can create areas to trap the sound. This can be done using wall coverings and carpets but given the desire for clean sleek minimal spaces it makes sense to deploy an acoustical system incorporating the lit environment of the space.



# SILIENCE-SL | Sound Absorbing Acoustic LED Light

## Describe

Combination Sound Absorbing and LED lighting, also a beautiful Decorate.

Has the function of absorbing sound, greatly reduces sound transmission. Uses high density and double layers of sound-absorbing material to trap acoustic waves. Sound travels into high density PET was absorbed, resulting in a 30% increase in sound reduction compared to competing luminaires.

Fireproof and Eco-friendly, reduces ecological impact, color options, shape options, create a coordinated look in interior spaces, suit to be decoration.

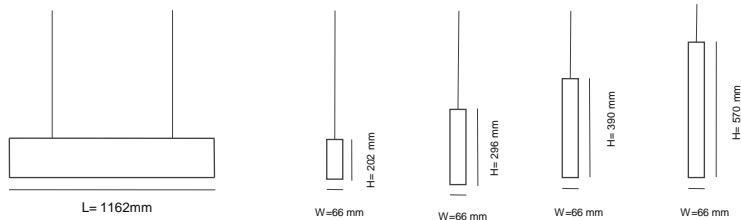
Superior craftsmanship meets optical performance and premium sound absorption in our SILENCE-SL line. Made using fine-cut acoustic felt. Six optics options, Opal diffuser, Lens, Turnable Spotlight, Micro-prism diffuser, Hexagon Pattern film---as well as adjustable accent modules. Frosted PMMA lens provides uninterrupted illumination, without pixels or shadows. LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

Direct lighting or indirect lighting, even direct and indirect lighting.

Smart lighting, we provide extra function for led light: light sensor, Motion sensor, emergency.

Length available 4ft, 5ft, 6ft, 8ft.

## Product Size



30% Indirect  
70% direct



100% direct





### Acoustic & Performance

PET Thickness 9mm Max NRC=0.85  
 PET Thickness 12mm Max NRC=0.95  
 Fire rating: ASTM E84 Class A; EN 13501 Class B; GB8624 class B1.  
 Eco-friendly, 100% polyester up to 50% of recycled plastic.  
 Moisture Resistant.  
 Easy clean, remove dust and debris with a clean, soft, lint-free cloth or vacuum.

### Product Size

- . Length Options: 4ft / 5ft / 6ft / 8ft.
- . Width Options: 66mm / 72mm.
- . Height Options: 202mm / 296mm / 390mm / 570mm.



**SILIENCE-SL-L**

### Optics & Performance

Optics: Lens  
 UP to 125-130 lm/w  
 Indirect Beam Angle: 90°  
 LED Chip: SMD 2835  
 Electrical Protection: Class 2  
 Operating Temperature: -20 to 55°C  
 Lifetime 50000 hours  
 5 Year warranty  
 Flicker free

### Options

- . Input Voltage: AC200-240V(50/60Hz) / AC100-277V(50/60Hz)
- . Watts: 36W / 48W / 60W.
- . Direct Beam Angle: 12° / 24° / 38° / 50°
- . Lighting Type: 100% direct / 70% direct, 30% indirect.
- . CCT: 2700K-6500K.
- . CRI: 80 / 90 / 95.
- . SDCM 5 / SDCM 3.
- . Dimmable: NO / 0-10V / DALI.



**SILIENCE-SL-P**

### Optics & Performance

Optics: Opal diffuser  
 UP to 115-120 lm/w  
 Indirect Beam Angle: 90°  
 Direct Beam Angle: 120°  
 LED Chip: SMD 2835  
 Electrical Protection: Class 2  
 Operating Temperature -20 to 55°C  
 Lifetime 50000 hours  
 5 Year warranty  
 Flicker free

### Options

- . Input Voltage: AC200-240V(50/60Hz) / AC100-277V(50/60Hz)
- . Watts: 36W / 48W / 60W.
- . CCT: 2700K-6500K.
- . Lighting Type: 100% direct / 70% direct, 30% indirect.
- . CRI: 80 / 90 / 95.
- . SDCM 5 / SDCM 3.
- . Dimmable: NO / 0-10V / DALI.

# SILIENCE-SLP | Sound Absorbing Acoustic LED Light

## Describe

Combination Sound Absorbing and LED lighting, also a beautiful Decorate.

Has the function of absorbing sound, greatly reduces sound transmission. Uses high density and double layers of sound-absorbing material to trap acoustic waves. Sound travels into high density PET was absorbed, resulting in a 30% increase in sound reduction compared to competing luminaires.

Fireproof and Eco-friendly, reduces ecological impact, color options, shape options, create a coordinated look in interior spaces, suit to be decoration.

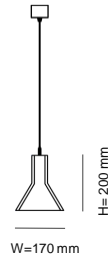
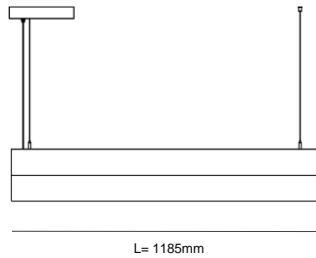
Superior craftsmanship meets optical performance and premium sound absorption in our SILENCE-SPL line. Made using fine-cut acoustic felt. Six optics options, Opal diffuser, Lens, Turnable Spotlight, Micro-prism diffuser, Hexagon Pattern film---as well as adjustable accent modules. Frosted PMMA lens provides uninterrupted illumination, without pixels or shadows. LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

Direct lighting or indirect lighting, even direct and indirect lighting.

Smart lighting, we provide extra function for led light: light sensor, Motion sensor, emergency.

Length available 4ft, 5ft, 6ft, 8ft.

## Product Size

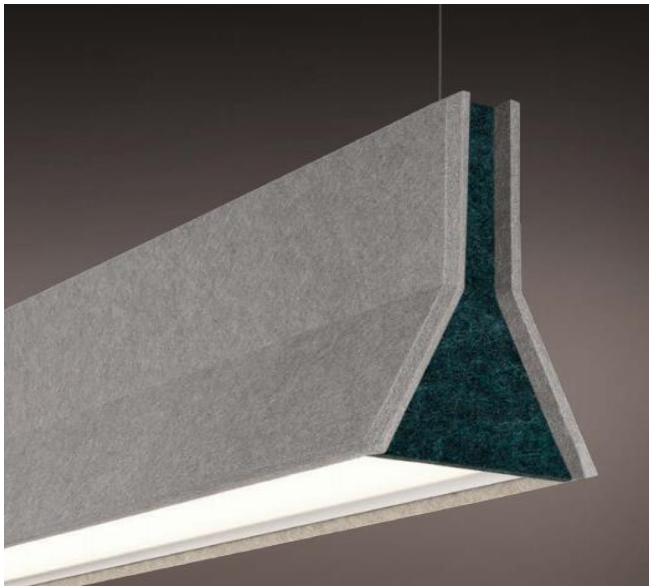


30% Indirect  
70% direct



100% direct



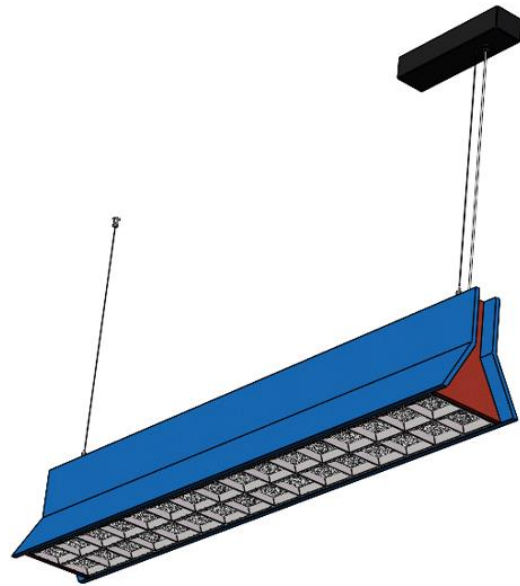


### Acoustic & Performance

PET Thickness 9mm Max NRC=0.85  
 PET Thickness 12mm Max NRC=0.95  
 Fire rating: ASTM E84 Class A; EN 13501 Class B; GB8624 class B1.  
 Eco-friendly, 100% polyester up to 50% of recycled plastic.  
 Moisture Resistant.  
 Easy clean, remove dust and debris with a clean, soft, lint-free cloth or vacuum.

### Product Size

- . Length Options: 4ft / 5ft / 6ft / 8ft.
- . Width: 170mm.
- . Height: 200mm.



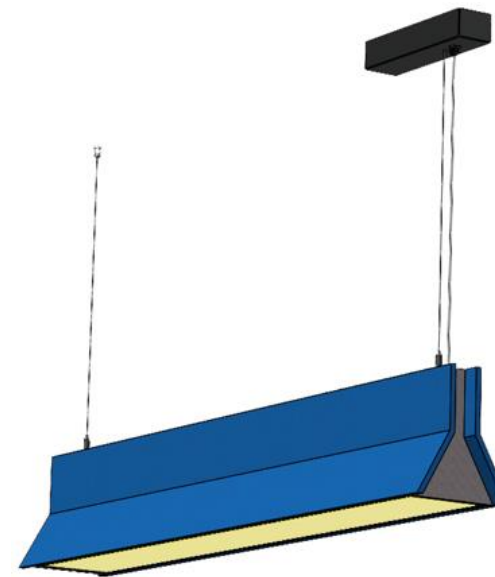
**SILENCE-SLP-L**

### Optics & Performance

Optics: Big Lens  
 UP to 135-140 lm/w  
 Indirect Beam Angle: 90°  
 Direct Beam Angle: 65°  
 Anti glare, UGR < 19  
 LED Chip: SMD 2835  
 Electrical Protection: Class 2  
 Operating Temperature -20 to 55°C  
 Lifetime 50000 hours  
 5 Year warranty  
 Flicker free

### Options

- . Input Voltage: AC200-240V(50/60Hz) / AC100-277V(50/60Hz)
- . Watts: 36W / 48W / 60W.
- . CCT: 2700K-6500K.
- . Lighting Type: 100% direct / 70% direct, 30% indirect.
- . CRI: 80 / 90 / 95.
- . SDCM 5 / SDCM 3.
- . Dimmable: NO / 0-10V / DALI.



**SILENCE-SLP-P**

### Optics & Performance

Optics: Opal diffuser  
 UP to 130-135 lm/w  
 Indirect Beam Angle: 90°  
 Direct Beam Angle: 120°  
 LED Chip: SMD 2835  
 Electrical Protection: Class 2  
 Operating Temperature -20 to 55°C  
 Lifetime 50000 hours  
 5 Year warranty  
 Flicker free

### Options

- . Input Voltage: AC200-240V(50/60Hz) / AC100-277V(50/60Hz)
- . Watts: 36W / 48W / 60W.
- . CCT: 2700K-6500K.
- . Lighting Type: 100% direct / 70% direct, 30% indirect.
- . CRI: 80 / 90 / 95.
- . SDCM 5 / SDCM 3.
- . Dimmable: NO / 0-10V / DALI.

## Describe

Combination Sound Absorbing and LED lighting, also a beautiful Decorate.

Has the function of absorbing sound, greatly reduces sound transmission. Uses high density and double layers of sound-absorbing material to trap acoustic waves. Sound travels into high density PET was absorbed, resulting in a 30% increase in sound reduction compared to competing luminaires.

Fireproof and Eco-friendly, reduces ecological impact, color options, shape options, create a coordinated look in interior spaces, suit to be decoration.

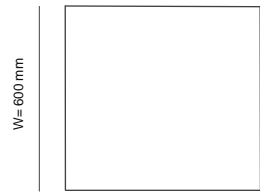
Superior craftsmanship meets optical performance and premium sound absorption in our SILENCE-PL line. Made using fine-cut acoustic felt. Six optics options, Opal diffuser, Lens, Turnable Spotlight, Micro-prism diffuser, Hexagon Pattern film---as well as adjustable accent modules. Frosted PMMA lens provides uninterrupted illumination, without pixels or shadows. LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

Direct lighting or indirect lighting, even direct and indirect lighting.

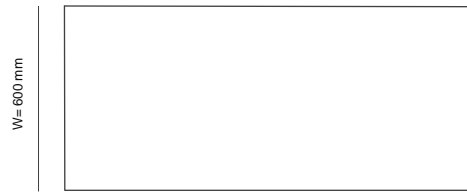
Smart lighting, we provide extra function for led light: light sensor, Motion sensor, emergency.

Product size 600\*600mm, 1200\*600mm, 2440\*1220mm.

## Product Size



L= 600 mm



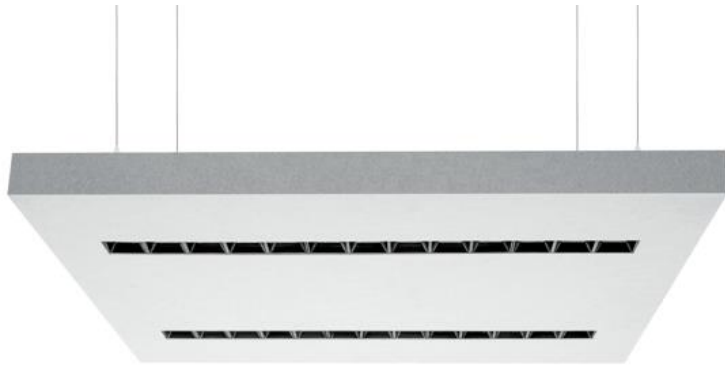
L= 1200 mm



L= 2440 mm







### Acoustic & Performance

NRC=0.95  
 Fire rating: ASTM E84 Class A; EN 13501 Class B; GB8624 class B1.  
 Eco-friendly, 100% polyester up to 50% of recycled plastic.  
 Moisture Resistant.  
 Easy clean, remove dust and debris with a clean, soft, lint-free cloth or vacuum.

### Product Size

. 600\*600mm, 1200\*600mm, 2440\*1220mm.  
 . Height: 45mm.



**SILIENCE-PL-L**

### Optics & Performance

Optics: Lens  
 UP to 120-130 lm/w  
 Indirect Beam Angle: 120°  
 Direct Beam Angle: 100°  
 Anti glare, UGR < 19  
 LED Chip: SMD 2835  
 Electrical Protection: Class 2  
 Operating Temperature -20 to 55°C  
 Lifetime 50000 hours  
 5 Year warranty  
 Flicker free

### Options

- . Input Voltage: AC200-240V(50/60Hz) / AC100-277V(50/60Hz)
- . Watts: 36W / 48W / 60W.
- . CCT: 2700K-6500K.
- . Lighting Type: 100% direct / 70% direct, 30% indirect
- . CRI: 80 / 90 / 95.
- . SDCM 5 / SDCM 3.
- . Dimmable: NO / 0-10V / DALI.



**SILIENCE-PL-L2**

### Optics & Performance

Optics: Big Lens  
 UP to 135-140 lm/w  
 Indirect Beam Angle: 120°  
 Direct Beam Angle: 65°  
 Anti glare, UGR < 19  
 LED Chip: SMD 2835  
 Electrical Protection: Class 2  
 Operating Temperature -20 to 55°C  
 Lifetime 50000 hours  
 5 Year warranty  
 Flicker free

### Options

- . Input Voltage: AC200-240V(50/60Hz) / AC100-277V(50/60Hz)
- . Watts: 36W / 48W / 60W.
- . CCT: 2700K-6500K.
- . Lighting Type: 100% direct / 70% direct, 30% indirect.
- . CRI: 80 / 90 / 95.
- . SDCM 5 / SDCM 3.
- . Dimmable: NO / 0-10V / DALI.



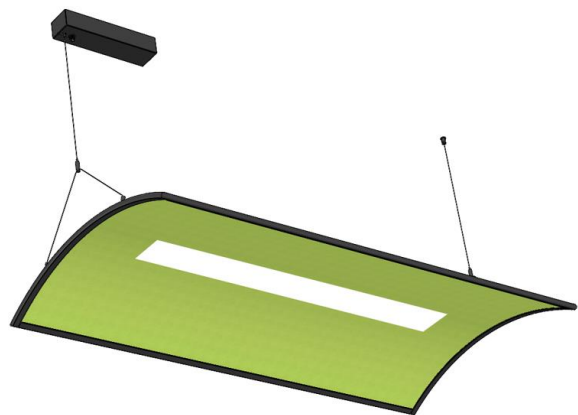
## Acoustic & Performance

PET Thickness 9mm Max NRC=0.85  
 PET Thickness 12mm Max NRC=0.95  
 Fire rating: ASTM E84 Class A; EN 13501 Class B; GB8624 class B1.  
 Eco-friendly, 100% polyester up to 50% of recycled plastic.  
 Moisture Resistant.  
 Easy clean, remove dust and debris with a clean, soft, lint-free cloth or vacuum.

### Product Size

- . 1200\*600mm.
- . Height: 50mm.

## SILIENCE-PLS-P

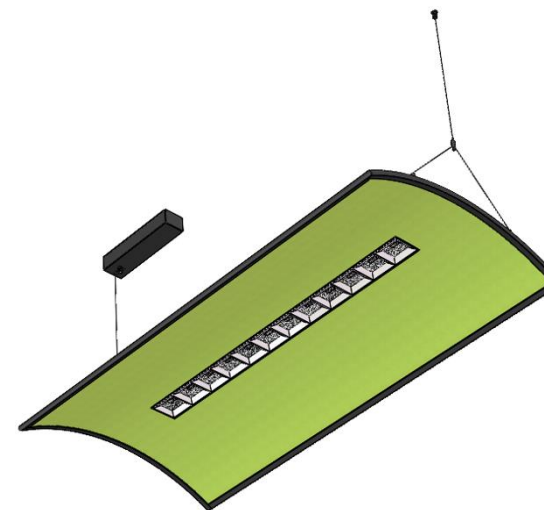


## Optics & Performance

Optics: Opal diffuser  
 Up to 110-115 lm/w  
 Indirect Beam Angle: 90°  
 Direct Beam Angle: 120°  
 LED Chip: SMD 2835  
 Electrical Protection: Class 2  
 Operating Temperature -20 to 55°C  
 Lifetime 50000 hours  
 5 Year warranty  
 Flicker free

### Options

- . Input Voltage: AC200-240V(50/60Hz) / AC100-277V(50/60Hz)
- . Watts: 36W / 48W / 60W.
- . CCT: 2700K-6500K.
- . Lighting Type: 100% direct / 70% direct, 30% indirect.
- . CRI: 80 / 90 / 95.
- . SDCM 5 / SDCM 3.
- . Dimmable: NO / 0-10V / DALI.



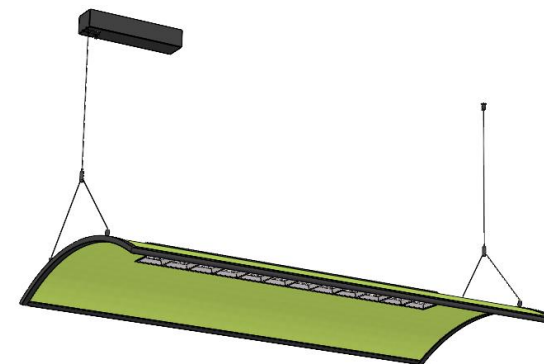
## Acoustic & Performance

PET Thickness 9mm Max NRC=0.85  
 PET Thickness 12mm Max NRC=0.95  
 Fire rating: ASTM E84 Class A; EN 13501 Class B; GB8624 class B1.  
 Eco-friendly, 100% polyester up to 50% of recycled plastic.  
 Moisture Resistant.  
 Easy clean, remove dust and debris with a clean, soft, lint-free cloth or vacuum.

### Product Size

- . 1200\*600mm.
- . Height: 50mm.

## SILIENCE-PLS-L



## Optics & Performance

Optics: Big Lens  
 UP to 125-135 lm/w  
 Indirect Beam Angle: 90°  
 Direct Beam Angle: 65°  
 Anti glare, UGR < 19  
 LED Chip: SMD 2835  
 Electrical Protection: Class 2  
 Operating Temperature -20 to 55°C  
 Lifetime 50000 hours  
 5 Year warranty  
 Flicker free

### Options

- . Input Voltage: AC200-240V(50/60Hz) / AC100-277V(50/60Hz)
- . Watts: 36W / 48W / 60W.
- . CCT: 2700K-6500K.
- . Lighting Type: 100% direct / 70% direct, 30% indirect.
- . CRI: 80 / 90 / 95.
- . SDCM 5 / SDCM 3.
- . Dimmable: NO / 0-10V / DALI.

# Acoustic Panel---Sound Absorbing PET Felt



## Specification

1. Good Sound Absorbing, PET felt thickness 9mm Max NRC=0.85; PET felt thickness 12mm Max NRC=0.95;
2. Fire rating: USA standard ASTM E84-2020, Class A; EU standard EN 13501- 1:2018, Class B; China standard GB8624-2012, Class B1;
4. Eco-friendly, toluene release < 0.1mg/L, Material is 100% polyester containing up to 50% of recycled plastic.
4. Moisture resistant and easy to clean.
5. Whole PET felt Size L2440×W1220 mm.

## ACOUSTIC Density

PET felt Thickness 9mm ;  
Weight: 1900g/m<sup>2</sup>

PET felt Thickness 12mm ;  
Weight: 2400g/m<sup>2</sup>

## Use with led light



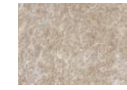
## ACOUSTIC PET COLOR OPTIONS



A-01 White



A-02 Light Camel



A-03 Camel



A-04 Dark Camel



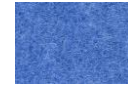
A-05 Smoky Grey



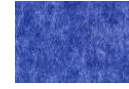
A-06 Silver Grey



A-07 Light Blue



A-08 Sky Blue



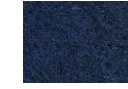
A-09 Sea Blue



A-10 Telecom Blue



A-11 Dark Cyan-Blue



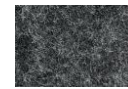
A-12 Dark Blue



A-13 Moonlight Grey



A-14 Dark Grey



A-15 Sesame Black



A-16 Black



A-17 Aqua Grey



A-18 Light Grey



A-19 Coffee



A-20 Lnk Green



A-21 Lost Brown



A-22 Red Coffee



A-23 Purple Red



A-24 Big Red



A-25 Cream Color



A-26 Cream Yellow



A-27 Light Yellow



A-28 Lemon Yellow



A-29 Emerald



A-30 Apple Green



A-31 Olive Green



A-32 Gem Green



A-33 Light Pink



A-34 Light Purple



A-35 Violets



A-37 Brown



A-37 Khaki



A-38 Golden



A-39 Light Orange



A-40 Milk Coffee



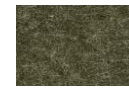
A-41 Dark Orange



A-42 Brownness



A-43 Pink



A-44 Bronze



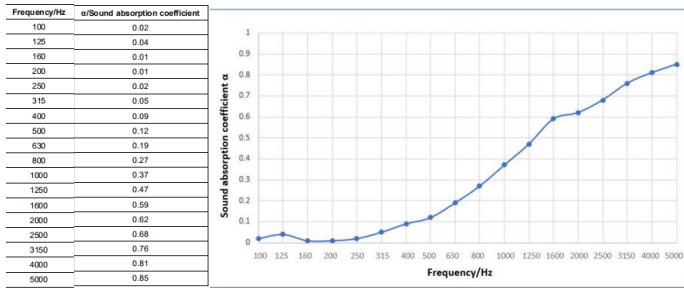
A-45 Aqua Blue



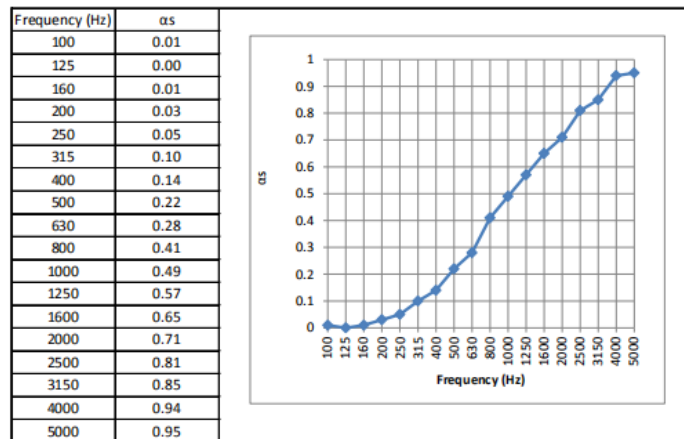
A-46 Dark Sliver Grey

## ACOUSTIC PERFORMANCE TEST

Test Environment	Fulgor has averaged the Sound absorption coefficient (αs) per unit at four specific frequency bands representing the human speech range (250, 500, 1000, 2000 Hz) to determine the Sound absorption coefficient (αs) per product.
NRC	Noise Reduction Coefficient (NRC) is the average of how absorptive a material is at various frequencies within the human speech frequency range. Two materials with the same rating may not perform the same in application. Typically, an NRC of 0 indicates perfect reflection, and an NRC of 1 is designated as perfect absorption. However, based on the testing methodology and depending upon the material's shape or surface area products can test at an NRC greater than 1.

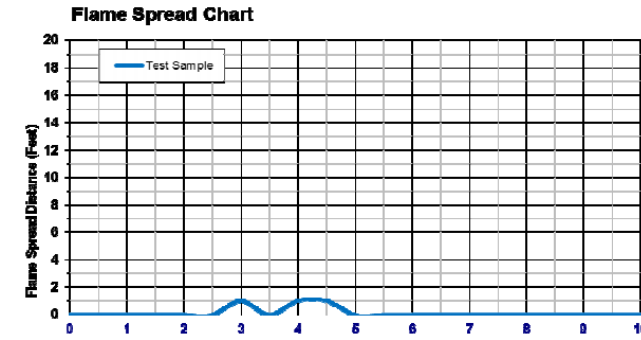


PET Thickness	9mm
Conclusion	MAX NRC=0.85



PET Thickness	12mm
Conclusion	MAX NRC=0.95

## FIRE RATING USA Standard----ASTM E84-2020, Class A



Test Standard	ASTM E84-2020
Test Result	Flame Spread: 5 Smoke Development Index: 170
Conclusion	ASTM E84 Class A (FSI 5, SDI 170)

## FIRE RATING European Standard----EN 13501- 1:2018, Class B

EN 13501-1:2018 table 1 - classification:

Classification	Test method	Classification criteria
B	EN 13823 and	FIGRA <sub>0.3MJ</sub> ≤ 120W/s; LFS < edge of specimen THR <sub>600s</sub> ≤ 7.5 MJ
	EN ISO 11925-2 Exposure = 30 s	Fs ≤ 150mm within 60s
Additional classification	Smoke	s1 SMOGRA ≤ 30 m <sup>2</sup> /s <sup>2</sup> , TSP <sub>600s</sub> ≤ 50m <sup>2</sup>
		s2 SMOGRA ≤ 180 m <sup>2</sup> /s <sup>2</sup> , TSP <sub>600s</sub> ≤ 200m <sup>2</sup>
		s3 Not s1 or s2
	Flaming droplets/particles	d0 No flaming droplets/particles occur within 600s
		d1 No flaming droplets/particles persisting longer than 10 s within 600s Not d0 or d1
d2 Ignites of the paper in EN ISO 11925-2 results in a d2 classification.		

### Conclusion:

Test standard	Record	Conclusion
EN 13823	FIGRA <sub>0.3MJ</sub> = 0 W/s LFS < Sample edge THR <sub>600s</sub> = 0.3MJ SMOGRA = 0 m <sup>2</sup> /s <sup>2</sup> TSP <sub>600s</sub> = 14.5 m <sup>2</sup>	B-s1,d0
EN ISO 11925-2	No flaming droplets/particles occur within 600s FS ≤ 150mm within 60s	