

# DELITHERM®

Energy-Efficient Fabrics



**DELIUS**  
WORLD OF TEXTILES SINCE 1722



DELITHERM®

## Energy-efficient curtains to reduce CO<sub>2</sub> emissions

DELITHERM® fabrics are energy savers both in summer and winter. In summer, the drawn curtains reduce solar radiation by up to 55 % and prevent the extreme heating up of rooms. Equally, in winter, DELITHERM® prevents the loss of heat through the window and keeps it in the room. One can save up to 15 % of the heating cost.

In both cases, our fabrics help to protect the climate. They reduce CO<sub>2</sub> emissions because the use of air conditioners, ventilators and radiators can be reduced.

DELITHERM® fabrics function similarly to sun protection systems, but they are more durable, easy to clean and long-lasting. Above all, they are the cosy alternative to clean classic sun protection.

up to **55%** less  
solar radiation  
in the summer\*

\*tested by stfi

approx. **15%**  
savings in heating  
costs during the winter



## Energy-saving curtain and drape fabrics

DELITHERM® fabrics are unique: with their soft flowing drape and functional sheen, they are decorative and help save energy. The collection of DELITHERM® fabrics is versatile: it includes semi-transparent curtain fabrics, light curtain fabrics and dimout fabrics with an additional darkening function.

DELITHERM® fabrics are usable as

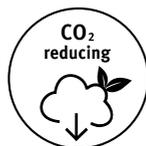
- ✓ sheers (Alpha)
- ✓ curtains | decorative fabric | darkening fabric (Gamma)
- ✓ linings
- ✓ roman blinds
- ✓ panels

## How do energy-efficient fabrics work?

DELITHERM® fabrics are made of high-gloss special yarns. These effectively reflect thermal radiation and thus ensure a comfortable indoor climate, regardless of the season. Tests conducted by the Fraunhofer Institute confirm these properties.



- ✓ energy saving thanks to the reflection of light rays and heat
- ✓ reduction of CO<sub>2</sub> emissions
- ✓ washable at 40° C
- ✓ soft drape
- ✓ hard-wearing in daily use; unlike coated sun protection qualities, there are no creases
- ✓ improves the thermal room atmosphere
- ✓ permanently flame retardant



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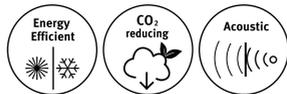
\*tested by stfi

## Collection of energy-efficient fabrics

**Alpha** DELITHERM® 29895 | 62 g/m<sup>2</sup>



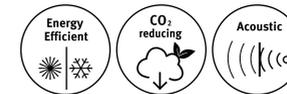
A light and airy semi-transparent curtain fabric with woven-in special fibres. The high-gloss fabric reflects heat rays both in the room and to the outside. Also suitable as a lining fabric for curtains.



**Solis** DELITHERM® 39946 | 210 g/m<sup>2</sup>



This soft flowing, opaque curtain fabric has a coloured front in a melange look. The reverse side is reflective, while the front embellishes the room.



**Eos** DELITHERM® 41777 | 120 g/m<sup>2</sup>



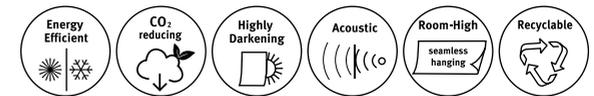
Soft flowing curtain fabric with a white front side. The reverse side made of high-gloss special yarn reflects heat rays and thus ensures a pleasant room climate.



**Gamma** DELITHERM® 21973 | 240 g/m<sup>2</sup>



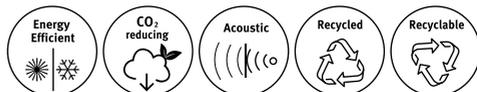
This dimout is energy-saving, darkening and particularly soft flowing. The glossy yarn on the reverse side ensures UV reflection, while the construction of the fabric provides up to 99 % darkening. Also available as a base cloth for special developments.



**Save** DELITHERM® 39924 | 145 g/m<sup>2</sup>



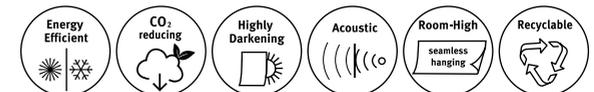
Save is a semi-transparent decoration fabric. It achieves its reflective effect through titanium oxide firmly embedded in the yarn and which reflects UV rays particularly effectively. Save is made of 30 % recycled polyester.



**Gamma Colour** DELITHERM® 28050 | 240 g/m<sup>2</sup>



Energy-saving, darkening and coloured. In addition to the energy-efficient properties and a blackout level of up to 99%, Gamma Colour is available in 11 colourways. Special colours from 100 m.



# Light and solar technical properties

DELITHERM®	<b>Alpha</b> DELITHERM® 29895	<b>Eos</b> DELITHERM® 41777	<b>Gamma</b> DELITHERM® 21973 (DIMOUT)	<b>Gamma Colour</b> DELITHERM® 28050 (DIMOUT)	<b>Save</b> DELITHERM® 39924	<b>Solis</b> DELITHERM® 39946
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## Light technical properties (optical) according to DIN EN 410

Tl	21 %	8 %	0 %	7 %	30 %	7 %
Rl	67 %	73 %	50 %	68 %	68 %	68 %
Al	12 %	19 %	50 %	25 %	2 %	25 %

## Solar Properties Thermocoated Double Glazing

UV Transmission DIN EN 410	15 %	1 %	0 %	2 %	15 %	2 %
FC value DIN EN 14501 2006	0,52 %	0,44 %	0,59 %	0,46 %	0,50 %	0,46 %
G value DIN EN 13363	0,36 %	0,33 %	0,44 %	0,35 %	0,38 %	0,35 %

## Solar technical properties according to DIN EN 410

Ts	21 %	9 %	0 %	9 %	30 %	9 %
Rs	67 %	72 %	49 %	69 %	65 %	69 %
As	12 %	19 %	51 %	23 %	5 %	22 %



Latest information about the technical details and energy efficiency of the articles is available on the Internet.

class	Fc value	Improvement of thermal comfort in the room
1	0,20 – 0,39	very high
DELITHERM® 2	<b>0,40 – 0,59</b>	<b>high</b>
3	0,60 – 0,79	medium
4	0,80 – 0,89	low
5	< 0,90	neutral

Applies to all DELITHERM® articles.



approx. **15%**  
savings in heating  
costs during the winter



Leading specialist of flame  
retardant contract fabrics

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