

Thermal and visual fabric properties (according to DIN EN 14501)

Protection against summer heat

Used for window, patio and conservatory awnings
The property of the external fabric preventing heat build-up in the room.
Heat protection glass (U = 1.2 W/m²K; g = 59 %) is used for classification, the value g_{total} is calculated according to DIN EN 13 363-1.

Picto	Description
	Not relevant for external fabrics.
	Not relevant for external fabrics.
	The sun shading system provides good protection against heating up of the room.
	The sun shading system provides very good protection against heating up of the room.
	The sun shading system provides maximum protection against heating up of the room.

Glare control

Property of the fabric allowing reduction of solar radiation on the workspace and prevention of direct view of the sun.

Picto	Description	Remarks to facade side
	No glare control.	
	Glare control is very limited and only suitable for a few applications, e.g. north facade, when glare from opposite facades is impossible.	Suitable for north side; on east, south and west side not suitable for computer workstations
	Glare control is almost always ensured and only insufficient for a few applications, e.g. computer workstations directly facing the window.	Suitable for east, south, west facade
	Glare control is almost always ensured and only insufficient for a few applications, e.g. computer workstations directly facing the window and CAD applications.	Suitable for east, south, west facade
	Full glare control independent of outside conditions such as workstation orientation, e.g. black-out versions. Please note that there is no view out.	Suitable for east, south, west facade

Visual privacy

The property of the fabric preventing a person inside the room to be discerned from the outside under normal night-time lighting conditions.

Picto	Description
	Visual privacy is not ensured, people can be clearly recognised.
	Only little visual privacy is ensured. People can still be discerned.
	Visual privacy is ensured, but shadows can always be seen and people can be discerned under unfavourable lighting conditions.
	Visual privacy is minimally limited. Shadows can only be discerned at a short distance to the fabric (e.g. people inside the room at a distance of <1 m).
	Complete visual privacy.

View out

Property of the fabric allowing view out when extended.

Picto	Description
	View out is not possible.
	View out is extremely limited, outlines can be discerned.
	View out is limited, outlines are easy to discern.
	View out is minimally limited, e.g. people can be seen at a distance of 10 m.
	View out is nearly unobstructed.

Solar radiation

Light reflectance ρ = Which percentage of the light reaching the awning is reflected.

Light transmittance τ = Which percentage of the light reaching the awning passes through (how bright is it underneath the awning).

Light absorption coefficient α = Which percentage of the light reaching the awning is absorbed.

Radiation reflection ρ_e = Which percentage of the total radiation reaching the awning (UV + light + infrared) is reflected.

Solar transmittance τ_e = Which percentage of the total radiation reaching the awning (UV + light + infrared) passes through.

Solar absorptance α_e = Which percentage of the total radiation reaching the awning is absorbed and transformed to heat.

Values for transmission, reflection and absorption according to DIN EN 410 according to manufacturer's data.
The printed data are reference values and individual verification is still required!

Description of acrylic fabrics

Acrylic Lumera

Lumera fabrics consist of a new CBA fibre (Clean Brilliant Acrylic) which has a smoother surface compared to standard acrylic. The threads of the fabric come closer together, providing richer colours with long lasting luminosity as well as high tear resistance. The density of the fabric ensures that less dirt can adhere to the fabric.

Acrylic Standard

100% brand acrylic fabric, spinning nozzle dyed, light-fast, weatherproof and tear-resistant. The fabrics are impregnated and therefore dirt-repellent and rot-proof.

Acryl All Weather



Awning fabric made from 100% brand acrylic fabric with transparent acrylate coating on the outside. The fabric is almost 100 % water-proof (water column 800 mm).

Perfora Acrylic fabric



This awning fabric consist of 100% brand acrylic fabric with perforation and therefore improved view out and transparency. The perforation reduces the accumulation of heat and the risk of formation of water pockets on the awning fabric. The uniform perforation gives the fabric a high-grade, elegant look.

14 different standard designs can be supplied in the qualities All Weather and Perfora. They are marked with the pictograms shown above. A sample for the qualities can be found on page 5.

Technical data	Acrylic Lumera	Acrylic Standard	All Weather	Perfora
Fabric weight	290 g/m ²	290–300 g/m ²	330 g/m ²	270 g/m ²
Web width	120 cm	120 cm	120 cm	120 cm
Tear resistance in warp direction	160 dN/5 cm	145–160 dN/5 cm	150 dN/5 cm	105 dN/5 cm
Tear resistance in weft direction	125 dN/5 cm	90-100 dN/5 cm	100 dN/5 cm	60 dN/5 cm
Water proofing	460 mm WS	300-370 mm WS	800 mm WS	–

Small colour deviations may occur!



Acrylic fabrics plain-coloured

Design no.	Quality	Price category	View out	Protection against summer heat	Glare control	Visual privacy	Light reflectance in %	Light transmittance in %	Light absorption coefficient in %	Radiation reflection in %	Solar transmittance in %	Solar absorptance in %	Page
4000	Acrylic Lumera	1	0	4	4	4	2	0	98	2	0	98	2
4001	Acrylic Lumera	1	0	4	4	4	5	0	95	7	0	93	2
4002	Acrylic Lumera	1	0	4	4	4	5	0	95	24	6	70	2
4003	Acrylic Lumera	1	0	4	4	4	10	0	90	13	1	86	2
4004	Acrylic Lumera	1	0	4	4	4	19	1	80	23	2	75	2
4005	Acrylic Lumera	1	0	4	4	4	4	0	96	22	4	74	2
4006	Acrylic Lumera	1	0	3	4	4	9	0	91	39	13	48	2
4007	Acrylic Lumera	1	0	4	4	4	1	0	99	14	1	85	2
4008	Acrylic Lumera	1	0	3	2	3	30	4	66	44	15	41	2
4009	Acrylic Lumera	1	0	4	3	4	27	3	70	30	5	65	2
4010	Acrylic Lumera	1	0	4	2	3	29	4	67	30	5	65	2
4011	Acrylic Lumera	1	0	2	2	3	31	10	59	47	19	34	2
4012	Acrylic Lumera	1	0	2	2	2	50	17	33	54	21	25	2
4013	Acrylic Lumera	1	0	2	2	3	49	15	36	50	19	31	2
4014	Acrylic Lumera	1	0	3	2	3	29	5	66	47	17	36	2
4015	Acrylic Lumera	1	0	3	2	3	47	14	39	48	16	36	2
4016	Acrylic Lumera	1	0	2	2	2	63	27	10	60	26	14	2
4017	Acrylic Lumera	1	0	2	2	2	63	27	10	63	28	9	2
4018	Acrylic Lumera	1	0	2	2	2	55	19	26	56	21	23	2
4019	Acrylic Lumera	1	0	2	2	2	53	18	29	53	22	25	2
4020	Acrylic Lumera	1	0	3	3	4	30	3	67	35	10	55	2
4021	Acrylic Lumera	1	0	3	4	4	19	1	80	35	12	53	2
4022	Acrylic Lumera	1	0	3	2	3	31	6	63	41	12	47	2
4023	Acrylic Lumera	1	0	3	2	3	34	6	60	38	8	54	2
4024	Acrylic Lumera	1	0	2	2	2	56	21	23	57	22	21	2
5510	Acrylic Standard	1	0	3	2	3	40	12	48	48	17	35	5
5520	Acrylic Standard	1	0	3	2	3	28	6	66	40	13	47	5
5540	Acrylic Standard	1	0	2	2	3	37	12	51	49	18	33	5
5550	Acrylic Standard	1	0	3	2	3	25	5	70	42	14	44	5
5560	Acrylic Standard	1	0	4	4	4	12	1	87	20	0	80	5
5570	Acrylic Standard	1	0	2	2	2	53	18	29	54	22	24	4
5580	Acrylic Standard	1	0	4	4	4	13	1	86	19	3	78	5
5800	Acrylic Standard	1	0	2	2	2	59	28	13	59	29	12	3
5820	Acrylic Standard	1	0	3	2	3	37	10	53	46	18	36	3
5840	Acrylic Standard	1	0	2	2	3	38	13	49	47	22	31	3
5850	Acrylic Standard	1	0	3	2	3	28	5	67	41	15	44	3
5860	Acrylic Standard	1	0	4	4	4	13	0	87	18	1	81	3
5890	Acrylic Standard	1	0	3	4	4	8	0	92	36	11	53	4
5900	Acrylic Standard	1	0	3	2	4	22	4	74	31	8	61	4
5980	Acrylic Standard	1	0	4	4	4	5	0	95	7	0	93	5
5981	Acryl All Weather	2	0	4	4	4	6	0	94	8	0	92	*
5982	Perfora Acrylic fabric	2	2	3	2	2	6	3	91	8	4	88	*
6010	Acrylic Standard	1	0	2	2	2	49	17	34	50	21	29	4
6011	Acryl All Weather	2	0	2	2	3	47	14	39	49	20	31	*
6012	Perfora Acrylic fabric	2	0	2	1	2	46	16	38	47	21	32	*
6030	Acrylic Standard	1	0	2	2	3	27	7	66	45	19	36	4
6040	Acrylic Standard	1	0	3	3	4	27	4	69	44	17	39	4
6050	Acrylic Standard	1	0	3	3	4	25	2	73	41	15	44	3
6060	Acrylic Standard	1	0	4	4	4	5	0	95	23	5	72	5
6061	Acryl All Weather	2	0	3	4	4	7	0	93	27	8	65	*
6062	Perfora Acrylic fabric	2	2	3	2	2	6	3	91	25	10	65	*
6080	Acrylic Standard	1	0	3	4	4	13	1	86	38	11	51	4
6100	Acrylic Standard	1	0	2	2	3	34	7	59	47	19	34	4
6110	Acrylic Standard	1	0	2	2	2	49	17	34	50	19	31	3
6140	Acrylic Standard	1	0	2	2	2	57	21	22	58	23	19	4
6141	Acryl All Weather	2	0	2	2	2	58	21	21	58	23	19	*
6142	Perfora Acrylic fabric	2	0	2	1	2	57	25	18	57	26	17	*
6150	Acrylic Standard	1	0	3	2	3	44	13	43	46	14	40	3
6151	Acryl All Weather	2	0	3	2	3	47	11	42	46	12	42	*
6152	Perfora Acrylic fabric	2	0	3	1	2	45	17	38	46	18	36	*

Manufacturer's data according to DIN EN 14501.
No responsibility is taken for the accuracy of this information.

* Designs NOT available as fabric samples in the colour chart

Design no.	Quality	Price category	View out	Protection against summer heat	Glare control	Visual privacy	Light reflectance in %	Light transmittance in %	Light absorption coefficient in %	Radiation reflection in %	Solar transmittance in %	Solar absorptance in %	Page
6170	Acrylic Standard	1	0	2	2	3	40	13	47	47	21	32	4
6180	Acrylic Standard	1	0	3	2	2	52	17	31	53	19	28	3
6200	Acrylic Standard	1	0	2	2	2	53	18	29	54	20	26	3
6201	Acryl All Weather	2	0	2	2	2	51	15	34	56	21	23	*
6202	Perfora Acrylic fabric	2	0	2	1	2	52	21	27	57	26	17	*
6220	Acrylic Standard	1	0	2	2	2	53	22	25	55	24	21	3
6230	Acrylic Standard	1	0	2	2	2	53	22	25	55	24	21	3
6240	Acrylic Standard	1	0	2	2	2	64	28	8	63	28	9	3
6250	Acrylic Standard	1	0	4	2	3	32	5	63	35	7	58	3
6260	Acrylic Standard	1	0	4	3	4	27	2	71	30	4	66	3
6261	Acryl All Weather	2	0	4	3	4	27	2	71	30	4	66	*
6262	Perfora Acrylic fabric	2	1	3	1	2	27	6	67	31	8	61	*
6300	Acrylic Standard	1	0	2	2	2	53	22	25	55	24	21	3
6310	Acrylic Standard	1	0	2	2	2	49	18	33	51	20	29	3
6320	Acrylic Standard	1	0	2	2	2	49	16	35	55	22	23	3
6370	Acrylic Standard	1	0	4	4	4	7	0	93	9	0	91	3
6371	Acryl All Weather	2	0	4	4	4	8	0	92	11	0	89	*
6372	Perfora Acrylic fabric	2	2	4	2	2	8	3	89	11	3	86	2
6390	Acrylic Standard	1	0	4	4	4	6	0	94	7	0	93	3
6400	Acrylic Standard	1	0	3	2	3	37	10	53	36	10	54	3
6410	Acrylic Standard	1	0	2	2	2	59	23	18	60	25	15	3
6420	Acrylic Standard	1	0	2	2	2	53	22	25	55	24	21	3
6460	Acrylic Standard	1	0	3	3	4	22	3	75	40	14		

Acryl-Stoffe Uni

Brillant Kollektion
Acryl Lumera



Markisen Kollektion Acryl Standard

