

LAMBERTS

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LAMBERTS LINIT

LAMBERTS LINIT U-glass data sheet

1) Minimum bending tension strength

(in accordance with General Construction Supervision Admission adjusted test similar to EN 521303-2)

a) P 26/60/7 standard 504,solar, clarissimo, cord

Web in the tension zone → 24,3 N/mm²
 Flanges in the tension zone → 38,7 N/mm²

b) P 26/60/7 tough 504, solar, clarissimo, cord

Web in the tension zone → 80 N/mm²
 Flanges in the tension zone → 120 N/mm²

c) P 26/60/7 tough PrismaSolar

Web in the tension zone → 80 N/mm²
 Flanges in the tension zone → 105 N/mm²

d) P 26/60/7 color 504, solar, clarissimo, cord

Web in the tension zone → 38,0 N/mm²
 Flanges in the tension zone → 63,0 N/mm²

Please note that the above mentioned minimum bending strength values are valid for most of the LINIT types, however they can vary depending on some individual LINIT types!

2) Thermal Insulation

(Values tested in accordance with DIN EN ISO 12567-1)

LINIT type interior piece	LINIT type exterior piece	TIM insert	glazing type	U-value in W/m ² K
LINIT uncoated			Single glazed	5,6
LINIT uncoated	LINIT uncoated		Double glazed	2,8
LINIT uncoated	LINIT solex (solar control)		Double glazed	2,8
LINIT 1.7W (thermal insulation)	LINIT uncoated		Double glazed	1,8
LINIT 1.7W (thermal insulation)	LINIT solex (solar control)		Double glazed	1,8
LINIT uncoated	LINIT uncoated	Approx. 40 mm	Double glazed	Approx. 1,5
LINIT 1.7W (thermal insulation)	LINIT uncoated	Approx. 40 mm	Double glazed	Approx. 1,2

Lamberts cannot guarantee any values with TIM!

The values with TIM insert are only approximate values, depending on the individual TIM material which is used! Exact values have to be asked at the TIM manufactures.

3) LINIT transmission data

(Values tested in accordance with DIN EN 410)

Double glazing		τ_{UV}	τ	ρ_v	τ_e	ρ_E	q_i	g	SC
Interior LINIT	Exterior LINIT								
LINIT 504	LINIT 504	0,33	0,79	0,14	0,69	0,13	0,06	0,75	0,94
LINIT 504 matt	LINIT 504	0,26	0,64	0,24	0,58	0,21	0,07	0,64	0,8
LINIT 504	LINIT 504 azur	0,27	0,56	0,11	0,5	0,1	0,08	0,58	0,73
LINIT 504 W1.7	LINIT 504	0,24	0,68	0,2	0,55	0,17	0,14	0,69	0,86
LINIT 504	LINIT 504 solex	0,14	0,4	0,23	0,39	0,18	0,08	0,47	0,59
LINIT 504 matt	LINIT 504 matt	0,21	0,53	0,3	0,5	0,26	0,08	0,57	0,71
LINIT solar	LINIT solar	0,34	0,79	0,15	0,69	0,13	0,06	0,75	0,94
LINIT solar W1.7	LINIT solar	0,29	0,73	0,24	0,64	0,18	0,07	0,71	0,89
LINIT Klar-Clarissimo	LINIT Klar-Clarissimo	0,33	0,64	0,22	0,58	0,19	0,06	0,64	0,8
LINIT Klar-Clarissimo W1.7	LINIT Klar-Clarissimo	0,33	0,69	0,21	0,58	0,15	0,14	0,71	0,89
LINIT 504	LINIT 504 color white	0	0,23	0,26	0,23	0,23	0,08	0,31	0,39
LINIT 504 color white	LINIT 504 color white	0	0,12	0,34	0,13	0,29	0,1	0,22	0,28
LINIT 504 W1.7	LINIT 504 color white	0	0,22	0,27	0,21	0,24	0,08	0,29	0,36
LINIT 504	LINIT 504 color ätzimitat	0,3	0,61	0,24	0,56	0,21	0,07	0,63	0,81
LINIT 504 color ätzimitat	LINIT 504 color ätzimitat	0,25	0,48	0,3	0,49	0,25	0,08	0,57	0,71
LINIT 504 W1.7	LINIT 504 color ätzimitat	0,25	0,56	0,27	0,51	0,22	0,1	0,61	0,76
LINIT 504	LINIT 504 color orange	0,07	0,16	0,22	0,19	0,21	0,09	0,28	0,35
LINIT 504 color orange	LINIT 504 color orange	0,01	0,04	0,23	0,07	0,22	0,15	0,22	0,28
LINIT 504	LINIT 504 color seidenmatt	0,29	0,68	0,19	0,6	0,17	0,07	0,68	0,85
LINIT 504 W1.7	LINIT 504 color seidenmatt	0,24	0,63	0,22	0,55	0,18	0,1	0,65	0,81

τ_{UV} = UV transmission

τ = Light transmission

ρ_v = External light reflectance

g = Total solar transmission

τ_e = direct solar transmission

ρ_E = solar reflection

q_i = Indirect solar transmission

SC (b) = shading-coefficient*

Single glazing	τ_{UV}	τ	ρ_v	ρ_v'	τ_e	ρ_E	ρ_E'	q_i	g	SC
(glass thickness 7 mm)										
Glass type										
solar low iron	0,72	0,91	0,08	0,08	0,88	0,07	0,08	0,01	0,89	1,11
solar	0,49	0,89	0,08	0,08	0,82	0,08	0,08	0,03	0,85	1,06
Solar W1.7	0,4	0,8	0,1	0,19	0,75	0,08	0,14	0,04	0,8	1
504	0,47	0,89	0,08	0,08	0,82	0,07	0,08	0,03	0,85	1,06
504 W1.7	0,34	0,76	0,15	0,16	0,64	0,12	0,13	0,06	0,7	0,88
504 solex	0,21	0,44	0,21	0,3	0,47	0,16	0,24	0,1	0,56	0,7
504 azur	0,44	0,63	0,16	0,21	0,6	0,13	0,18	0,07	0,67	0,84
504 matt	0,71	0,71	0,2	0,2	0,69	0,17	0,18	0,03	0,72	0,9
504 low iron	0,46	0,91	0,08	0,08	0,87	0,07	0,08	0,01	0,88	1,1
Klar-Clarissimo	0,58	0,9	0,07	0,07	0,83	0,06	0,06	0,03	0,86	1,08
Klar-Clarissimo W1.7	0,43	0,76	0,17	0,14	0,68	0,12	0,1	0,06	0,73	0,91
Klar-Clarissimo azur	0,37	0,66	0,21	0,16	0,64	0,18	0,13	0,05	0,69	0,86
Klar-Clarissimo matt	0,44	0,71	0,18	0,19	0,68	0,16	0,16	0,04	0,72	0,9
FR (cord)	0,46	0,85	0,07	0,09	0,78	0,06	0,08	0,04	0,82	1,03
Primasolar	0,62	0,9	0,07	0,07	0,82	0,07	0,07	0,03	0,86	1,06
LINIT 504 color seidenmatt	0,41	0,76	0,14	-	0,74	0,12	-	0,04	0,77	0,96
LINIT 504 color ätzimitat	0,44	0,68	0,21	-	0,68	0,17	-	0,04	0,72	0,9
LINIT 504 color white	0	0,25	0,26	-	0,27	0,22	-	0,13	0,4	0,5
LINIT 504 color orange	0,12	0,18	0,22	-	0,23	0,21	-	0,14	0,38	0,48

τ_{UV} = UV transmission

τ = Light transmission

ρ_v = External light reflectance (inner side without pattern)

ρ_v' = External light reflectance (outside - pattern)

g = Total solar transmission

τ_e = direct solar transmission

ρ_E = solar reflection (inner side without pattern)

ρ_E' = solar reflection (outside-pattern)

q_i = Indirect solar transmission

SC (b) = shading-coefficient*

*In Europe the shading-coefficient (b-value) is calculated as follows:

$$\text{SC} = \text{g-value U-glass} / 0,8 \text{ (g-value float glass)}$$

Please take into consideration that the g-value for float glass is not always the same in the different countries! It must be checked, which values are valid for the calculation in your country!

All the values given, may deviate within the usual tolerance limits for cast glass, depending on the tolerances of the ingredients!

!!! All transmittance data mentioned above, do not consider the use of translucent heat insulation material !!!

4) Sound insulation

(Values tested in accordance with DIN EN ISO 140-1; 140-3 and 717-1)

Test 1:

LINIT P 26/60/7 double glazed, with padding profiles → **43 dB**

Test 2:

LINIT P 26/41/6 double glazed, with padding profiles → **42 dB**

Test 3:

LINIT P 26/60/7 double glazed and LINIT P 26/41/6 single glazed, with padding profiles (triple glazed application) → **57 dB**

5) General Note

Please note that LINIT U-Profiled glass does not have a fall-safe function!

Generally the test values are valid in combination with the mentioned standardized tests. Other tests, for example based on other national standards, could lead to different results!

Following the defined test standards some of them are done under laboratory conditions which could be different to the conditions in the field!

Always observe that Glasfabrik Lamberts GmbH & Co. KG solely deals with the manufacturing of glass. Planning activities, such as e.g. design details, structural analyses and all other use-related issues do not come under our range of services and are not our responsibility.