

Technical values of LAMILUXplan

	dimensional unit	approximate value	testing regulation
Mechanical properties			
density	g/cm ³	1,3 - 1,5	DIN 53 479
tensile strength (standard)	N/mm ²	60 – 90	DIN 53 455
tensile strength (fabric reinforced)	N/mm ²	90 – 150	DIN 53 455
at break elongation	%	1 - 2	DIN 53 455
flexural strength	N/mm ²	130 – 170	DIN 53 452
compressive strength	N/mm ²	150 - 180	DIN 53 454
impact strength	kJ/m ²	40 - 60	DIN 53 453
E-Modul (bending test)	N/mm ²	7000 - 10000	DIN 53 457
Barcol hardness		40 - 60	EN 59
water absorption process CL	mg	30	DIN 53 495
Thermal properties			
operating temperature	°C	von -30 bis +80	
extrem temperature of application (short duration)	°C	von -50 bis +130	
coefficient of linear thermal expansion	a K-1	30 - 40 x 10 ⁻⁶	VD 0304
vapor diffusion resistance number	m	60.000 - 90.000	DIN 52 615
thermal conductivity	W/mK	0,21	DIN 52 612
thermal transmittance	W/m ² K	5,5	DIN 4701
Electrical properties			
special volume resistance	W x cm	1015 - 1016	DIN 53 482
disruptive strength	kV/mm ²	15 – 25	DIN 53 481
surface resistance	W	1012 - 1013	DIN 53482
Optical properties			
light transmittance in the visual range (360-780 nm)			
colourless material approximately 1nm	%	80 - 90	
Heat transition (measured in the range of 200 to 2.600 mm)			
transmission transition	%	58	
with reference to the solar spectrum	%	84	
Behaviour in fire			
from approximately 1,2 mm thickness		B2	DIN 4102 Teil 1
with additional fire protection equipment		resistant to flying sparks and radiating heat	DIN 4102 Teil 7
incandescence resistance		stage 3a	DIN 53 459

These figures refer to a glass content of approximately 28%. Depending upon the product type, the glass contents, and therefore the technical figures may vary. The technical figures are not promise of properties in the framework of a specification. The user should examine the suitability for a particular application him- or herself because of the variety of application parameters.

We reserve the right to make mistakes or modifications
date: Mai 1999