

Visualux (edge lit) Backlights

Specification for the Visualux Backlight body (Light Guide)

Mechanical Properties:	Test	Unit	Values
Tensile Strength	DIN 53455	N/mm ²	65-68
Compressive Strength	DIN 53454	N/mm ²	125
Flexural Strength	DIN 53452	N/mm ²	120
Impact Strength	DIN 53453	kJ/m ²	12
Modules of elasticity	DIN 53457	N/mm ²	3,000
Elongation at break	DIN 53455	%	4
Indentation hardness	DIN 53456	N/mm ²	175

Thermal Properties:			
Heat Stability - Vicat B	DIN 53460	°C	105
Forming temperature		°C	150-170
Coefficient of linear thermal expansion	VDE 0304/1	mm/m°C.	0.08
Specific heat		kJ/kg°C.	1.46
Thermal conductivity		W/m°C.	0.19

Electrical Properties:			
Dielectric strength	DIN 53481	kV/mm.	40
Volume resistivity	DIN 53482	ohm x cm.	10 ¹⁵
Dielectric constant, 10 ³ Hz.	DIN 53483		3.4
Dissipation factor, 50 Hx.	DIN 53483		0.06

Other Properties:			
Specific gravity	DIN 53472	g/cm ²	1.2
Water absorption	at 20°C.in 24 hrs.	%	0.17
Light transmission	4500 A	%	92

N. B. See separate graph for light transmission

Grey 2711

