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Translucent Building Elements

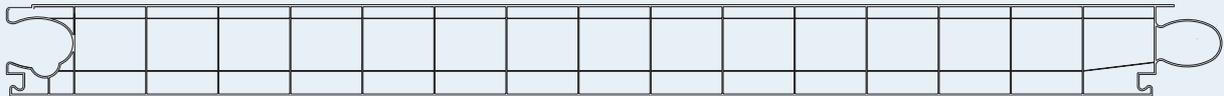
Product properties - Physical properties

Stand: 10/10

System PC 1540-4 MC | PC 2540-4 MC | PC 3540-4 MC

Up-Value from 1.30 to 1.60 W/m²K

Depending on horizontal or vertical installation situation as interior and exterior application according to DIN EN ISO 6946:2008 / DIN EN ISO 10077-2:2008



Flammability classifications:

PC 1540-4 MC
PC 2540-4 MC
PC 3540-4 MC

fire class B 1 according to DIN 4102
fire class B 2 according to DIN 4102
fire class B, s 2 - d 0 according to DIN EN 13501

Building width:

500 mm +/- 1 %

Thickness:

40 mm +/- 1 %

Weight:

approx. 4.00 kg/m²

Number of layers:

4 layers / 3 chambers

Modulus of elasticity:

2,400 N/mm²

Coefficient of linear expansion:

0.065 mm/m/°C

UV admission:

> 1 %, wavelength until 380 nm stopped almost a 100 %

Production tolerances:n:

Length - 0/+ 15 mm (at room temperature)

Flection: +/- 0.5 %

Versions:

Colours: crystal and opal antiblind

Standard:

Up-values:

Isotherm- and temperature pattern from -10 °C outside and 20 °C inside at vertical assembly



Isotherm:

Red: 13 °C

Blue: 10 °C

Black: 0 °C

Installation situation interior:

Up-value 1.30 W/m²K vertical

Up-value 1.50 W/m²K horizontal

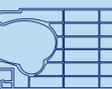
Installation situation exterior:

Up-value 1.50 W/m²K vertical

Up-value 1.60 W/m²K horizontal

Sound insulation:

Rw 25 dB according to DIN EN ISO 140-3 in testing facility



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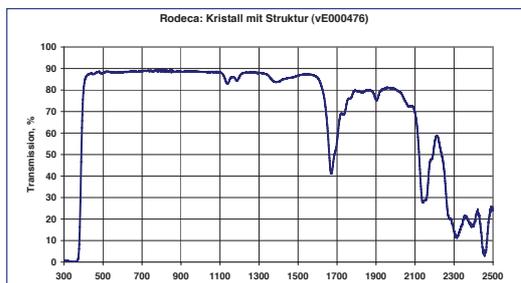
Physical properties

Stand: 10/10

Transmission:

Standard:

Colour: crystal approx. 66 %
 Colour: opal antiblind approx. 48 %



The measurement of the transmission values was carried out with application of a natural day light lamp of 20,000 Lux in connection with a lux meter Lightmeter MS 1000-300 – measuring range 200 to 50,000 LUX) exemplarily on a 1 mm thick PC.

Solar gain values g

Standard:

Colour: crystal approx. 0.68
 Colour: opal antiblind approx. 0.56

(The g-values were partially tested at TNO. The values without TNO declaration are interpolated g-values on the basis of testing results of the TNO or rather tests of the technical university of Berlin. Please consider that the g-values differ depending on sun incidence angle.)

The general German building approval Z-10.1-327 is currently in the final extension phase and will be soon available. All following information to stability are based on assembly testings carried out in line of the German building approval procedure. Flammability classifications don't have influence to the aspects of stability.

The aforesaid information and our application technological advice in words, written and through tries, are carried out to the best of one's knowledge. This information is non-binding advice even in regards to property rights of third party. Our advice does not release you from your responsibility to proof self dependently our current advices - especially our safety data sheets and technical information - and to test our products regarding to applicability for the intended system and use. Application, use and handling of our products - produced based on our application technological advice - take place out of our control and therefore you are solely responsible. The sales of our products is effected at our current general sales and delivery conditions.