



Thermo conductivity

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### Deventer TPE compact and TPE foam.

Thermal conductivity tested at 10°C according to DIN 52612.

#### Preparation of the test:

The testing material was stored at ambient temperature for 24 hours according to DIN 50014-23/50-2.

#### Testing procedure:

##### Testing devise:

thermal conductivity tester brand CEAST.

##### Technical information sensor:

Heath transfer coefficient: 57 W/m<sup>2</sup>K  
Time constant: 140s  
Thermal resistance: 1.7 K/W  
Thermal capacity: 83 J/K  
Emission power: 0.8 (gray copper)

##### Temperature settings:

T1 = -12,60 °C  
T2 = 35,48°C

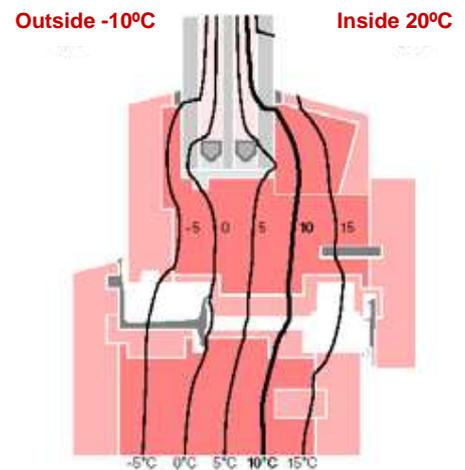
##### Test dimensions:

240 mm x 210 mm x 4 mm

### Test result DEVENTER Profielen:

Material	Mid Temp.	Thermal Conduct.
• Compact TPE	11.25°C	<b>0.101W/mK</b>
• Foam TPE	11.44°C	<b>0.077W/mK</b>

Tests effected by the Kunststoff Zentrum in Leipzig show that the high quality material used by DEVENTER Profielen has better results as the standard, average TPE used in the market.



General known thermal conductivity of materials used in window construction.

Glass	0,81
Wood	0,06 – 0,35
Aluminum	160 204 220
Steel	17
Argon	0,016
Krypton	0,0088
Xenon	0,0051
EPDM	0,326
Silicon	0,2 - 0,3
PVC	0,15 – 0,18
<b>TPE</b>	<b>0,174</b>