

## TPS – Polyisobutylene Spacers

**Manufacture:** Schollglas  
Krendelstrasse 34  
D-30916 Isernhagen

In accordance with agreement the Danish Technological Institute, Building Technology, has calculated the equivalent thermal conductivity of edge constructions based on TPS spacer profiles according to DS 418, Annex I.

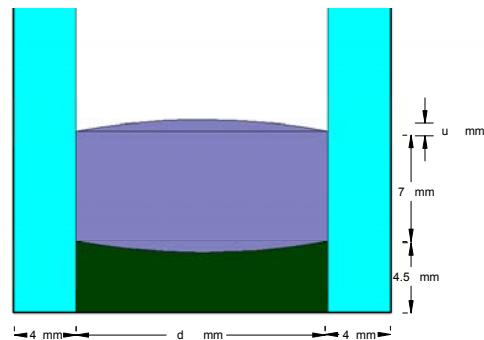
When calculating linear thermal transmittance, figure I.1 of DS 418, Annex I, could be used.

THERM, version 5.0.41 has been used for the calculations.

### Material data and Dimensions

The following material data has been used when performing the calculations:

Material	$\Lambda$ in W/m <sup>2</sup> K
Float glass	1.000
Polyisobutylene	0,240
Polysulfide	0.400
TPS	0.290
Softwood	0,130
EPDM	0,250



Energy labelled panes have been used at all dimensions with  $U = 1.1 \text{ W/m}^2\text{K}$ .

**Table 1. Dimensions and equivalent thermal conductivity of TPS spacer profiles**

d mm	u mm	Box measurements d x h mm x mm	$\lambda_k$ equivalent W/m <sup>2</sup> K	L*) value W/mK
6	1.4	6x12.2	0.302	0.61
8	1.2	8x12.1	0.310	0.47
10	1.2	10x12.1	0.312	0.38
12	1.0	12x12.0	0.315	0.32
14	0.8	14x11.9	0.318	0.27
15	0.8	15x11.9	0.319	0.25
16	0.7	16x11.9	0.320	0.24
17	0.7	17x11.9	0.321	0.22
18	0.6	18x11.8	0.321	0.21
19	0.6	19x11.8	0.322	0.20
20	0.6	20x11.8	0.322	0.19

$$*) L = \frac{\lambda_k \cdot h}{d}$$