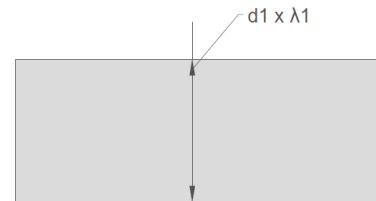
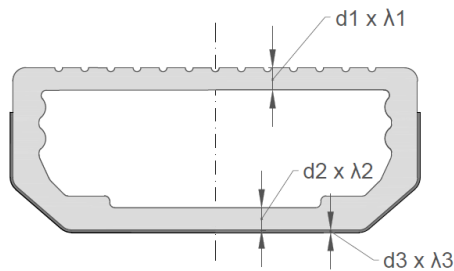


Product data sheet – Definition thermally improved edge bond

in accordance with EN ISO 10077-1:2010-05



Requirement in accordance with EN ISO 10077-1:2010-05:

$$\sum (d \cdot \lambda) \leq 0.007 \frac{W}{K}$$

Alternatively via two-box model, as barrier film cannot be measured separately.

Calculation for Thermix® Low Psi spacers:

$$\begin{aligned} & \sum (d \cdot \lambda) \text{ Thermix® Low Psi} \\ &= (0.00085 \text{ m} + 0.00085 \text{ m}) \cdot 0.23 \frac{W}{(mK)} + 0.0001 \text{ m} \cdot 0.30 \frac{W}{(mK)} \\ &= 0.0004 \frac{W}{K} \leq 0.007 \frac{W}{K} \text{ bzw.} \\ &= 0.0062 \text{ m} \cdot 0.155 \frac{W}{(mK)} = 0.001 \frac{W}{K} \leq 0.007 \frac{W}{K} \end{aligned}$$

Material	λ values [W/(m·K)]
TECATHERM PP GF	0.23* ¹
Barrier film Low Psi	0.30* ²
Two-box value	0.155* ³
Steel	50
Aluminium	160

Spacer type	Σ(d·λ) [W/K]	d ₁ [m]	λ ₁ [W/(m·K)]	d ₂ [m]	λ ₂ [W/(m·K)]	d ₃ [m]	λ ₃ [W/(m·K)]
Warm edge:							
Thermix® Low Psi	0.0004	0.00085	0.23	0.00085	0.23	0.0001	0.3
Thermix® Low Psi	0.001	0.0062	0.155				
Cold edge:							
Steel	0.0400	0.0004	50	0.0004	50		
Aluminium	0.1216	0.00038	160	0.00038	160		

→ Thermix® Low Psi spacer systems satisfy the requirement for a thermally improved edge bond..

*¹ value for TECATHERM PP GF as per Test Report No.2.04.000766.1.21-10

*² value for multi-layer barrier film cannot be measured separately. Assumed value approx. 0.25 to 0.3 W/(mK).

*³ Two-box value for the spacer including desiccant filling and butyl

These details are based on our current knowledge. No assurance or warranty of the properties, commercial aptitude and suitability of the products for a concrete application can consequently be provided with legally binding effect. Subject to technical changes.