

Material data sheet

Insulating strips of **PA 66 GF10 CF12**
- dry impact resistant -

Insulating profiles
for windows, doors,
and facades.

Material data sheet

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- dry impact resistant -

characteristic	reference standard	Unit	samples prepared from extruded insulating strips		injection-moulded samples
			dry ⁽¹⁾	Equilibrium moisture content ⁽²⁾	dry ⁽¹⁾
melting temperature	EN ISO 11357-3	°C	min. 250 ⁽³⁾	min. 250 ⁽³⁾	min. 250 ⁽³⁾
density	EN ISO 1183-1 or -3	g/cm ³	1.25 +/- 0.05	1.25 +/- 0.05	1.25 +/- 0.05
annealing residue (glass fibre content)	EN ISO 1172	%	14 +/- 2.5	14 +/- 2.5	14 +/- 2.5
shore hardness D	EN ISO 868	-	82 +/- 4 ⁽⁴⁾	78 +/- 4 ⁽⁴⁾	84 +/- 4
impact strength	EN ISO 179-1	kJ/m ²	min. 5 or without break ⁽⁵⁾	min. 9 or without break ⁽⁵⁾	min. 12 ⁽⁶⁾
tensile strength	EN ISO 527-2 and -4	N/mm ²	min. 80 ⁽⁷⁾	min. 55 ⁽⁷⁾	min. 110 ⁽⁸⁾
Young's modulus	EN ISO 527-2 and -4	N/mm ²	min. 4200 ⁽⁷⁾	min. 2800 ⁽⁷⁾	min. 8400 ⁽⁸⁾
elongation at break	EN ISO 527-2 and -4	%	min. 0.7 ⁽⁷⁾	min. 1 ⁽⁷⁾	min. 0.7 ⁽⁸⁾

¹⁾ Sample water content less than 0.2 % by weight

²⁾ Fast conditioning acc. to EN ISO 1110 (23 °C / 50 %)

³⁾ Maximum temperature 300 °C

⁴⁾ Specimen thickness 2mm, unstacked

⁵⁾ Specimen 2fU (50 mm x 10 mm x 2 mm)

⁶⁾ Specimen 1fU (80 mm x 10 mm x 4 mm)

⁷⁾ Specimen Type 1BA

⁸⁾ Specimen Type 1A

⁹⁾ Annealing residue conforms the GF-content and the not fully burned Carbon fibers.

The material is not suitable for anodizing!

In case of specific questions we gladly offer our individual support.

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