TECHNOFORM

Material data sheet

Insulating strips of
Bio-based PA 610 GF25

Insulation solutions for windows, doors, and facades

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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. 220 [3]	min. 220 [3]	min. 220 [3]
density	EN ISO 1183-1 or -3	g/cm³	1.25 +/- 0.05	1.25 +/- 0.05	1.25 +/- 0.05
annealing residue (glass fibre content)	EN ISO 1172	%	25 +/- 2.5	25 +/- 2.5	25 +/- 2.5
shore hardness D	EN ISO 868	-	80 +/- 4 [4]	77 +/- 4 [4]	80 +/- 4
impact strength	EN ISO 179-1	kJ/m²	min. 20 [5]	min. 20 [5]	min. 50 [6]
tensile strength	EN ISO 527-2 and -4	N/mm²	min. 70 [7]	min. 50 [7]	min. 90 [8]
Young's modulus	EN ISO 527-2 and -4	N/mm²	min. 3200 [7]	min. 2200 [7]	min. 5500 [8]
elongation at break	EN ISO 527-2 and -4	%	min. 1.5 [7]	min. 1.5 [7]	min. 1.5 [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 280 °C
4) Specimen thickness 2 mm, 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

This characteristical values were prepared from a small amount of test results.

Therefore, some values include high safety factors. Tested values were much higher than published herein.

Insulating strips made of this material successfully passed the test according to EN 14024 at IFT-Rosenheim.

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

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