

# Material data sheet

Insulating strips of PA 66 GF25 PCR 10  
closed-loop, dry impact resistant

## PA 66 GF25 PCR 10 closed-loop, dry impact resistant

Characteristic	Reference standard	Unit	Samples from extruded insulating strips		injection-moulded samples
			Dry <sup>(1)</sup>	Equilibrium moisture content <sup>(2)</sup>	Dry <sup>(1)</sup>
Melting temperature	EN ISO 11357-3	°C	≥ 250 <sup>(3)</sup>	≥ 250 <sup>(3)</sup>	min. 250 <sup>(3)</sup>
Density	EN ISO 1183-1 or -3	g/cm <sup>3</sup>	1.3 +/- 0.05	1.3 +/- 0.05	1.3 +/- 0.05
Annealing residue (glass fibre content)	EN ISO 1172	%	25 +/- 2.5	25 +/- 2.5	25 +/- 2.5
Tensile strength	EN ISO 527-2	N/mm <sup>2</sup>	≥ 80 <sup>(4)</sup>	≥ 50 <sup>(4)</sup>	min. 110 <sup>(9)</sup>
Young's modulus	EN ISO 527-2	N/mm <sup>2</sup>	≥ 4500 <sup>(4)</sup>	≥ 2000 <sup>(4)</sup>	min. 6000 <sup>(9)</sup>
Elongation at break	EN ISO 527-2	%	≥ 3 <sup>(4)</sup>	≥ 7 <sup>(4)</sup>	min. 3 <sup>(9)</sup>
Thermal conductivity	EN 12664	W/mK		0.30 <sup>(5)</sup>	
Reaction to fire	EN 13501-1	-		class E <sup>(6)</sup>	

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**The PA 66 GF25 used for production consists of up to 10% post consumer recycled materials from closed-loop sources. Material is suitable to be used as thermal barrier with mechanical functions according to EN 14024<sup>(7)</sup>. The performance of the material is equal to PA 66 GF25, dry impact resistant.<sup>(8)</sup>**

1) Sample water content less than 0.2 % by weight

2) Fast conditioning acc. to EN ISO 1110

3) Maximum temperature 300 °C

4) Specimen Type A22 - mean value with min. sample size of 5 specimens at room temperature - tension measured in extrusion direction

5) The declared value is taken from ISO 10077-2 and can be used for thermal performance of frames according to the mentioned standard

6) Report 24-003934-PR02 ift Rosenheim GmbH

7) EN14024:2023 section 5.2 Report 24-003459-PR01 ift Rosenheim GmbH

8) Expert Statement No. 24-003459-PR08 GAS-K20-09-en-01 ift Rosenheim GmbH

9) Specimen Type A1

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

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