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Technical Data Sheet

In the following, the typical physical properties of a material developed by Eisenhuth GmbH & Co. KG, made of a graphite-polymer composite material (compound), are listed below.

Material: BMA5 **Identification No.: 01-03-03-80-80-0-0-0**

Polymer: Polyvinylidene fluoride (PVDF)

Physical Properties (Typical Values):

Property	Unit	Value
Density	$g \cdot cm^{-3}$	2
Flexural Strength [A]	$N \cdot mm^{-2}$	39
Flexural Modulus [A]	$N \cdot mm^{-2}$	12000
Tensile Strength [B]	$N \cdot mm^{-2}$	21
Tensile Modulus [B]	$N \cdot mm^{-2}$	7500
Fracture Elongation [A, B]	%	0.3 – 0.3
Thermal Conductivity [C]	$W \cdot m^{-1} \cdot K^{-1}$	20
Thermal Expansion Coefficient [D]	$K^{-1} \cdot 10^{-6}$	100
Specific Electrical Resistance [E]	Ω·cm	0.005
Specific Electrical Resistance [F]	Ω·cm	0.050
Electrical Resistance [E]	mΩ	8
Recommended maximal Operating Temperature [G]	°C	<150

A According to DIN EN ISO 178
B According to ISO 572
C By 25°C Through-Plane
D According to ISO 11359-2 Through-Plane
E By 25°C In-Plane
F Vertical to the panel plane at a contact pressure of 2.5N/cm²
G Derived from heat deflection temperature according to ISO 75-2

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