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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: Melange6 **Identification No.: 01-03-04-82-82-0-0-0**

Polymer: Polyvinylidene fluoride (PVDF)

Physical Properties (Typical Values):

Property	Unit	Value
Density	$g \cdot cm^{-3}$	2.1
Flexural Strength [A]	$N \cdot mm^{-2}$	32
Flexural Modulus [A]	$N \cdot mm^{-2}$	10500
Tensile Strength [B]	$N \cdot mm^{-2}$	-
Tensile Modulus [B]	$N \cdot mm^{-2}$	-
Fracture Elongation [A, B]	%	0.3
Thermal Conductivity [C]	$W \cdot m^{-1} \cdot K^{-1}$	30
Thermal Expansion Coefficient [D]	$K^{-1} \cdot 10^{-6}$	100
Specific Electrical Resistance [E]	Ω·cm	0.004
Specific Electrical Resistance [F]	Ω·cm	0.040
Electrical Resistance [E]	mΩ	3
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

The typical values are updated during production and are based on the current state of information. They provide a general overview of the products and their applications. They are not guaranteed properties or suitability for extraordinary applications of the described products. All rights of use must be observed.