

Technical Data Sheet **GEHR E-CTFE®**

Physical Properties	Test Method	Unit	Value
Specific Gravity	ISO 1183	g/cm ³	1,71
Water Absorption	ISO 62	%	0,7
Humidity Absorption	ISO 62	%	-
Maximum Permissible Service Temperatur	UL746B	°C	150

Mechanical Properties	Test Method	Unit	Value
Tensile Strength at Yield	ISO 527	MPa	30
Elongation at Yield	ISO 527	%	5
Tensile Strength at Break	ISO 527	MPa	47
Elongation at Break	ISO 527	%	250
Impact Strength	ISO 179	kJ/m ²	n.B.
Notch Impact Strength	ISO 179	kJ/m ²	n.B.
Ball Indentation Hardness / Rockwell	ISO 2039	MPa	- / R 90
Shore Hardness	ISO 868	Scale D	69
Flexural Strength	ISO 178	MPa	54
Tensile Modulus	ISO 527	MPa	1845

Thermal Properties	Test Method	Unit	Value
Vicat Softening Temperature (VST/B/50)	ISO 306	°C	-
(VST/A/50)	ISO 306	°C	-
Heat Deflection Temperature (HDT/B)	ISO 75	°C	82
(HDT/A)	ISO 75	°C	78
Coefficient of Linear Thermal Expansion	ISO 11359	K ⁻¹ *10 ⁻⁴	0,9
Thermal Conductivity at 20 °C	ISO 22007-4	W/(m*K)	0,15
Glass Transition Temperature	ISO 3146	°C	85
Melt Temperature	ISO 3146	°C	230

Electrical Properties	Test Method	Unit	Value
Volume Resistivity	IEC 60093	Ω*cm	≥ 10 ¹³
Surface Resistivity	IEC 60093	Ω	≥ 10 ¹³
Dielectric Constant at 1 MHz	IEC 60250	-	2,6
Dielectric loss factor at 1 MHz	IEC 60250	-	-
Dielectric Strength	IEC 60243-1	kV/mm	15
Tracking Resistance	IEC 60112	V	CTI 600

Additional Data	Test Method	Unit	Value
Bondability	-	-	o
Physiological Safety	EEC FDA	- -	- -
Flammability	UL 94	-	V-0
Limiting Oxygen Index (LOI)	ASTM D2863	%	52

These values have been generated by qualified parties and contain our current experience. They can therefore be described as applicable to a high degree, without being mandatory for every case of application. The values given are average values which are verified by systematic tests. The characteristic values correspond to the specifications of DIN EN 15860 and may vary on the finished product. These are guide values and not guaranteed properties which are only intended to provide information about our products and to assist in the selection of materials. In case of missing measured values, raw material data or literature values were used, if available. Subject to change.

n.B. = no Break

+ = Yes

o = Limited

- = No / No Data Available