

Technical Data Sheet **MEDI-GEHR PEI MG**®

Physical Properties	Test Method	Unit	Value
Specific Gravity	ISO 1183	g/cm ³	1,27
Moisture Absorption	ISO 62	%	0,25
Maximum Permissible Service Temperatur	UL746B	°C	170

Mechanical Properties	Test Method	Unit	Value
Tensile Modulus	ISO 527	MPa	3450
Tensile Strength at Yield	ISO 527	MPa	110
Elongation at Yield	ISO 527	%	6
Tensile Strength at Break	ISO 527	MPa	85
Elongation at Break	ISO 527	%	≥ 30
Flexural Strength	ISO 178	MPa	165
Impact Strength	ISO 179	kJ/m ²	n.b.
Notched Impact Strength	ISO 180	kJ/m ²	4
Rockwell Hardness	D 785	R Scale	M 109

Thermal Properties	Test Method	Unit	Value
Heat Deflection Temperature (HDT/A)	ISO 75	°C	190
Heat Deflection Temperature (HDT/B)	ISO 75	°C	200
Coefficient of Linear Thermal Expansion	ISO 11359	K ⁻¹ *10 ⁻⁴	0,56
Glass Transition Temperature	ISO 11357	°C	217

Additional Data	Test Method	Unit	Value
Physiological Safety	EEC	-	+
	FDA	-	+
Biocompatibility	ISO 10993	-1, -5, -12, -18	+
	USP	Class VI	+
Flammability	UL 94	-	V0
Limiting Oxygen Index (LOI)	ASTM D2863	%	47

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