

Technical Data Sheet **MEDIGEHR® PP-HT MG**

Physical Properties	Test Method	Unit	Value
Specific Gravity	ASTM D1505	g/cm ³	0.94
Water Absorption	ASTM D570	%	<0.02
Maximum Permissible Service Temperatur	(Short)	°C	140

Mechanical Properties	Test Method	Unit	Value
Tensile Strength at Yield	ASTM D638	MPa	12.9
Elongation at Yield	ASTM D638	%	-
Tensile Strength at Break	ASTM D638	MPa	37.4
Elongation at Break	ASTM D638	%	12.2
Impact Strength	ASTM D256	J/m	-
Notch Impact Strength	ASTM D256	kJ/m ²	44.8
Ball Indentation Hardness / Rockwell	ASTM D785	MPa	- / R 110
Shore Hardness	ASTM D2240	Skala D	74
Flexural Strength	ASTM D790	MPa	69.6
Tensile Modulus	ASTM D790	MPa	3040

Thermal Properties	Test Method	Unit	Value
Vicat Softening Temperature (VST/B/50)	ISO 306	°C	-
Heat Deflection Temperature (HDT/B)	ASTM D648	°C	154
(HDT/A)	ISO 75	°C	-
Glass Transition Temperature	ASTM D3418	°C	171
Melt Temperature	ASTM D3418	°C	165-170

Additional Data	Test Method	Unit	Value
Physiological Safety	EEC	-	-
	FDA	-	+
Biocompatibility	ISO 10993	-1, -5, -12, -18 -23	+
	USP	-Class VI	+
Flammability	UL 94	-	-
Limiting Oxygen Index (LOI)	ASTM D2863	%	-

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