



## Technical data sheet

### IF ISORTHO 10

#### Key benefits

High density polyethylene (HDPE)  
Excellent thermoforming  
Moisture and chemical resistant

#### General application

Orthopaedics

	Test method	Unit	Value
<b>General properties</b>			
Density	DIN 53479	g/cm <sup>3</sup>	0.95
Filler content		%	
<b>Mechanical Properties</b>			
Tensile modulus	ISO 527	MPa	1000
Tensile strength	ISO 527	MPa	24
Elongation at break	ISO 527	%	>250
Flexural modulus	ISO 178	MPa	1050
Charpy notched impact strength at 23°C	ISO 179	kJ/m <sup>2</sup>	15
Charpy unnotched impact strength at 23°C	ISO 179	kJ/m <sup>2</sup>	nb
Hardness	ISO 868	Shore D	64
<b>Thermal properties</b>			
Melting temperature	ISO 3146	°C	135
Vicat softening temperature - A50	ISO 306/A50	°C	124
Vicat softening temperature - B50	ISO 306/B50	°C	75
Heat deflection temperature B (0.45 MPa)	ISO 75B	°C	
Heat deflection temperature A (1.80 MPa)	ISO 75A	°C	
Service temperature (intermittent)		°C	90
Service temperature (long term)		°C	- 40 ... 80
<b>Other properties</b>			
Surface resistivity	LabeOHM	Ω	>10 <sup>14</sup>
Water absorption	24h/RT	%	<0,01
Flammability (thickness 3 mm)	UL94		HB
Mould shrinkage	Compared to a reference form	%	Longitudinal: / Transverse: /

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