



Technical data sheet

IF ISORTHO 50

Key benefits

Polypropylene homopolymer
Excellent thermoforming
Chemical and moisture resistant

General application

Orthopaedics

	Test method	Unit	Value
General properties			
Density	DIN 53479	g/cm ³	0.91
Filler content		%	
Mechanical Properties			
Tensile modulus	ISO 527	MPa	1600
Tensile strength	ISO 527	MPa	36
Elongation at break	ISO 527	%	>50
Flexural modulus	ISO 178	MPa	
Charpy notched impact strength at 23°C	ISO 179	kJ/m ²	7
Charpy unnotched impact strength at 23°C	ISO 179	kJ/m ²	
Hardness	ISO 868	Shore D	75
Thermal properties			
Melting temperature	ISO 3146	°C	165
Vicat softening temperature - A50	ISO 306/A50	°C	
Vicat softening temperature - B50	ISO 306/B50	°C	95
Heat deflection temperature B (0.45 MPa)	ISO 75B	°C	109
Heat deflection temperature A (1.80 MPa)	ISO 75A	°C	
Service temperature (intermittent)		°C	135
Service temperature (long term)		°C	0 ... 100
Other properties			
Surface resistivity	LabeOHM	Ω	>10 ¹⁴
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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