



Technical data sheet

IF ISORTHO 30

Key benefits

Low density polyethylene (LDPE)
Excellent thermoforming
Moisture and chemical resistant

General application

Orthopaedics

	Test method	Unit	Value
General properties			
Density	DIN 53479	g/cm ³	0.93
Filler content		%	
Mechanical Properties			
Tensile modulus	ISO 527	MPa	200
Tensile strength	ISO 527	MPa	20
Elongation at break	ISO 527	%	>250
Flexural modulus	ISO 178	MPa	
Charpy notched impact strength at 23°C	ISO 179	kJ/m ²	
Charpy unnotched impact strength at 23°C	ISO 179	kJ/m ²	nb
Hardness	ISO 868	Shore D	48
Thermal properties			
Melting temperature	ISO 3146	°C	115
Vicat softening temperature - A50	ISO 306/A50	°C	96
Vicat softening temperature - B50	ISO 306/B50	°C	
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 ... 70
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: /

The information data contained herein is believed to be reliable to the best of our knowledge but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom, and it is the end user responsibility to make its own determination of the product suitability for the intended applications.