

Zelfo HZ

Cellulose Acetate
Zelfo Technology GmbH

Message:

Formed from cellulose (plant) fibres, Zelfo processed materials are self-binding and non toxic, with properties that are modifiable as required by the end user.

Bio-binder: Zelfo engineered fibre has multiple uses as a bio-binder in newly developed products as well as a replacement for many currently used synthetic binders.

Formable: 3D Housings/Cases 2D Sheets/Panels

Finish: Textured or smooth; unfinished, matte or gloss surface.

Colour: Untreated, surface-treated or pigmented throughout; both neutral and vibrant tones are possible.

Low/medium/high density

Water resistance

Fire resistance

The use of Zelfo-based materials provides the potential to up-cycle fibre based waste, which can then be recycled into new products which, in turn are recyclable and biodegradable. The patented Cellulose Optimization Resource Efficient (CORE) technology provides an extremely energy- and water-efficient processing method to transform fibre into a range of self-binding Zelfo materials. The Life Cycle Assessment (LCA) of these materials varies by application; however their source materials, production processes, composition and end-of-life disposal have a low carbon footprint and minimal environmental impact.

General Information		
Recycled Content	Yes	
Features	Biodegradable	
	Good Strength	
	Good Surface Finish	
	Low to No Water Absorption	
	Medium Heat Resistance	
	Renewable Resource Content	
Uses	Electrical/Electronic Applications	
	Furniture	
	Household Goods	
	Lighting Fixtures	
	Musical Instruments	
	Reinforced Panels	
Appearance	Colors Available	
	Matte Finish	
	Natural Color	
	Titanium	
Processing Method	Press Molding	
Physical	Nominal Value	Unit
Density	1.50	g/cm ³
Mechanical	Nominal Value	Unit

Tensile Modulus	6550	MPa
Tensile Stress (Yield)	55.0	MPa
Flexural Stress	95.0	MPa
Impact	Nominal Value	Unit
Notched Izod Impact Strength ¹	6.0	kJ/m ²
Unnotched Izod Impact Strength ²	14	kJ/m ²
Additional Information	Nominal Value	Unit
Impact Modulus	9.40	GPa
NOTE		
1.	Underground specimen	
2.	Underground specimen	

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