

# MATERIAL DATASHEET

## ZX-530ELNB 3D FILAMENT



### Description

- The chemically resistant yet flexible
- For structural parts such as pipes, containers, housings especially in chemical environments
- Flexible
- Tensile, shock and chemical resistant

Properties	Symbol   Unit	Standard	Value
Filament data			
Material code	-	-	494
Diameter	mm	-	1,75
Tolerance of the diameter	mm	-	±0,05
Weight per metre (theoretical)	g/m	-	-



Values determined on printed test specimens.  
Filament undried – Alignment: horizontal/upright – slicing 45°

Properties	Symbol   Unit	Standard	Value (horizontal)	Value (upright)
Material properties				
Filament moisture content during printing	w	%	DIN EN ISO 15512	-
Thermal post-treatment (annealing)	-	-	-	no
3D printing orientation	-	-	-	XY ZX
	E <sub>t</sub>	MPa	DIN EN ISO 527-2/1B/1	-
	σ <sub>y</sub>	MPa	DIN EN ISO 527-2/1B/5	-
	ε <sub>y</sub>	%	DIN EN ISO 527-2/1B/5	-
	σ <sub>m</sub>	MPa	DIN EN ISO 527-2/1B/5	36,39 17,58
	ε <sub>m</sub>	%	DIN EN ISO 527-2/1B/5	5,0 2,7
	σ <sub>b</sub>	MPa	DIN EN ISO 527-2/1B/5	35,55 17,52
	ε <sub>b</sub>	%	DIN EN ISO 527-2/1B/5	6,0 2,7
	α <sub>cN</sub>	kJ/m <sup>2</sup>	DIN EN ISO 179	-
	α <sub>cU</sub>	kJ/m <sup>2</sup>	DIN EN ISO 179	-
	HB	N/mm <sup>2</sup>	DIN 2039 H358/30	-
	K	mm <sup>3</sup> /km * 10 <sup>-7</sup>	ASTM G99:2000	-
	K	mm <sup>3</sup> /km * 10 <sup>-7</sup>	ASTM G99:2000	-
Annealing shrinkage 125 ° C, length	-	%	-	-
Annealing shrinkage 125 ° C, width	-	%	-	-
Annealing shrinkage 125 ° C, thickness	-	%	-	-