MATERIAL DATASHEET

ZEDEX newlife PVDF 3D FILAMENT

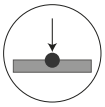
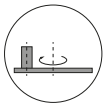
ZEDEX®
3D TRIBO FILAMENT

Description

- ZEDEX new life PVDF
  the environmentally conscious
- 3D Filament
- available from stock
- comparable properties to PVDF virgin
- Significant contribution to waste reduction

Properties	Symbol | Unit		Standard	Value
Filament data				
Material code	-	-	-	F5D
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)
	Material properties				
	Filament moisture content during printing	w	%	DIN EN ISO 15512	-
	Thermal post-treatment (annealing)	-	-	-	no
	3D printing orientation	-	-	-	XY
	Tensile modulus	E_t	MPa	DIN EN ISO 527-2/1B/1	2050
	Tensile strength at yield	σ_y	MPa	DIN EN ISO 527-2/1B/5	-
	Tensile strain at yield	ε_y	%	DIN EN ISO 527-2/1B/5	-
	Tensile strength	σ_m	MPa	DIN EN ISO 527-2/1B/5	50
	Elongation at tensile strength	ε_m	%	DIN EN ISO 527-2/1B/5	-
	Tensile strength at break	σ_b	MPa	DIN EN ISO 527-2/1B/5	-
	Elongation at break	ε_b	%	DIN EN ISO 527-2/1B/5	>52
	Impact resistance notched Charpy	α_{cN}	kJ/m²	DIN EN ISO 179	-
	Impact resistance un-notched Charpy	α_{cU}	kJ/m²	DIN EN ISO 179	-
	Ball indentation hardness	HB	N/mm²	DIN 2039 H358/30	-
	Specific wear rate p = 1N / mm²; v = 100m / min; 100Cr6, dry-running	K	mm³/km * 10-7	ASTM G99:2000	-
	Specific wear rate p = 10N / mm²; v = 4 m / min; 100Cr6, dry-running	K	mm³/km * 10-7	ASTM G99:2000	-
	Annealing shrinkage 125 ° C, length	-	%	-	-
	Annealing shrinkage 125 ° C, width	-	%	-	-
	Annealing shrinkage 125 ° C, thickness	-	%	-	-