## **PRELIMINARY DATASHEET**

## **PARTBPOX BLUE – 3D PRINTING FILAMENT**

## High-temperature polyamide with mineral filler, blue



Physical properties		Test method	Specimen	Units	Typical value			
Specific gravity		ISO 1183-3		g/cm³	1,25			
Water absorption	23°C / 24h	ISO 62	MPTS ISO 3167 A	%	<0,3			
Melt flow rates (MFR)	250°C / 2,16kg	ISO 1133	pellet	g/10 min	5,5			
Melt volume rate (MVR)	250°C / 2,16kg	ISO 1133	pellet	cm³/10 min	5			
Linear mould shrinkage		DIN 16742	MPTS ISO 3167 A	%	0,3-0,5			
Mechanical properties at 23°C / 50% rh								
Tensile strength	dry, @50 mm/min	ISO 527	MPTS ISO 3167 A	MPa	78			
Elongation at maximum force	dry, @50 mm/min	ISO 527	MPTS ISO 3167 A	%	4,4			
Modulus of elasticity	dry, @1 mm/min	ISO 527	MPTS ISO 3167 A	GPa	3,4			
Charpy impact strength	dry	ISO 179 1eU	80x10x4mm	kJ/m²	90			

Thermal properties					
Heat distortion		150 75		°C	90
temperature		130 7 5	molded sumple		
Continuous service	20.000 h	IEC 60216	MPTS ISO 3167 A	°C	120
temperature				C	120
Service temperature	during lifetime max. 200h		MPTS ISO 3167 A	°C	160

Electrical properties					
Insulation resistance strip electrode	R25	DIN IEC 60167	MPTS ISO 3167 A	Ω	>1012
Surface resistance	ROB	DIN IEC 60093	Ronde 60x4mm	Ω	>1012

## Main features

Low influence from moisture and temperature to measures and electrical properties, compared with PA66

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