

## Enplury® 6 K5050 2000P

**Enplury 6 K5050 2000P** is a 50% glass fibre reinforced polyamide 6 with very high rigidity and strength and light inherent color

**Applications:** Components in mechanical engineering and in the automotive industry

Properties	Test method	Unit	Value	
			d.a.m.	cond.
Tensile modulus (1 mm/min)	ISO 572-1/2	MPa	17,000	10,300
Yield stress <sup>1</sup> /Tensile stress at break (5 mm/min)	ISO 572-1/2	MPa	/230	/240
Elongation at break (5 mm/min)	ISO 572-1/2	%	2.5	4.5
Flexural modulus (2 mm/min)	ISO 178	MPa	14,900	-
Flexural stress (2 mm/min)	ISO 178	MPa	340	-
Charpy impact strength (23°C)	ISO 179-1/1eU	kJ/m <sup>2</sup>	100	110
Charpy impact strength (-30°C)	ISO 179-1/1eU	kJ/m <sup>2</sup>	90	-
Charpy notched impact strength (23°C)	ISO 179-1/1eA	kJ/m <sup>2</sup>	20	26
Charpy notched impact strength (-30°C)	ISO 179-1/1eA	kJ/m <sup>2</sup>	16	-
Ball indentation hardness (HB 961/30)	ISO 2039-1	MPa	270	-
Melting point (DSC, 10 K/min)	ISO 11357-1/3	°C	220	-
Heat distortion temperature (HDT/A)	ISO 75-2	°C	220	-
Heat distortion temperature (HDT/B)	ISO 75-2	°C	220	-
Flammability acc. UL 94 (1.6 mm)	UL 94	Class	HB	-
Density (23°C)	ISO 1183	g/cm <sup>3</sup>	1.56	-
Content minerals / reinforcement	ISO 1172	-	50	-
Moisture absorption (70°C/62 % r.h.)	ISO 1110	%	1.3 - 1.6	-
Water absorption (23°C/satur.)	ISO 62	%	4.5 - 5.1	-