

## Enplury® 6 K3030 2000P

**Enplury 6 K3030 2000P** is a 30% glass fibre reinforced polyamide 6 with high rigidity and strength and light inherent color

**Applications:** Mainly 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	10,300	6,200
Yield stress <sup>1</sup> /Tensile stress at break (5 mm/min)	ISO 572-1/2	MPa	/185	/110
Elongation at break (5 mm/min)	ISO 572-1/2	%	3	5.5
Flexural modulus (2 mm/min)	ISO 178	MPa	8,500	-
Flexural stress (2 mm/min)	ISO 178	MPa	270	-
Charpy impact strength (23°C)	ISO 179-1/1eU	kJ/m <sup>2</sup>	95	105
Charpy impact strength (-30°C)	ISO 179-1/1eU	kJ/m <sup>2</sup>	85	-
Charpy notched impact strength (23°C)	ISO 179-1/1eA	kJ/m <sup>2</sup>	13	18
Charpy notched impact strength (-30°C)	ISO 179-1/1eA	kJ/m <sup>2</sup>	12	-
Ball indentation hardness (HB 961/30)	ISO 2039-1	MPa	230	-
Melting point (DSC, 10 K/min)	ISO 11357-1/3	°C	220	-
Heat distortion temperature (HDT/A)	ISO 75-2	°C	210	-
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>	1.36	-
Content minerals / reinforcement	ISO 1172	-	30	-
Moisture absorption (70°C/62 % r.h.)	ISO 1110	%	2.1 - 2.3	-
Water absorption (23°C/satur.)	ISO 62	%	6.3 - 6.9	-