

TECHNICAL DATA SHEET

Enplury® 6 K6060 2000P

Enplury 6 K6060 2000P is a 60% glass fiber 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	21000	13500
Yield stress ¹ /Tensile stress at break (5 mm/min)	ISO 572-1/2	MPa	240	150
Elongation at break (5 mm/min)	ISO 572-1/2	%	2.5	3.5
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 ²	100	95
Charpy impact strength (-30°C)	ISO 179-1/1eU	kJ/m ²	90	-
Charpy notched impact strength (23°C)	ISO 179-1/1eA	kJ/m ²	20	25
Charpy notched impact strength (-30°C)	ISO 179-1/1eA	kJ/m ²	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	190	-
Flammability acc. UL 94 (1.6 mm)	UL 94	Class	HB	-
Density (23°C)	ISO 1183	g/cm ³	1.7	-
Content minerals / reinforcement	ISO 1172	-	60	-
Moisture absorption (70°C/62 % r.h.)	ISO 1110	%	0.9 - 1.2	-
Water absorption (23°C/satur.)	ISO 62	%	3.9 - 4.4	-
Processing shrinkage, flow	ISO 294-4	%	0.3	-
Processing shrinkage, transverse	ISO 294-4	%	0.7	-