

Enplury® 66 K5050 2000P

Enplury 66 K5050 2000P is a 50% glass fibre reinforced polyamide 6.6 with very high rigidity 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	16,700	12,600
Yield stress ¹ /Tensile stress at break (5 mm/min)	ISO 572-1/2	MPa	/250	/180
Elongation at break (5 mm/min)	ISO 572-1/2	%	2.5	3.5
Flexural modulus (2 mm/min)	ISO 178	MPa	15,200	13,600
Flexural stress (2 mm/min)	ISO 178	MPa	380	310
Charpy impact strength (23°C)	ISO 179-1/1eU	kJ/m ²	105	110
Charpy impact strength (-30°C)	ISO 179-1/1eU	kJ/m ²	105	-
Charpy notched impact strength (23°C)	ISO 179-1/1eA	kJ/m ²	19	23
Charpy notched impact strength (-30°C)	ISO 179-1/1eA	kJ/m ²	16	-
Ball indentation hardness (HB 961/30)	ISO 2039-1	MPa	290	-
Melting point (DSC, 10 K/min)	ISO 11357-1/3	°C	262	-
Heat distortion temperature (HDT/A)	ISO 75-2	°C	260	-
Heat distortion temperature (HDT/B)	ISO 75-2	°C	260	-
Flammability acc. UL94 (1.6 mm)	UL94	Class	HB	-
Density (23°C)	ISO 1183	g/cm ³	1.57	-
Content minerals / reinforcement	ISO 1172	-	50	-
Moisture absorption (70°C/62 % r.h.)	ISO 1110	%	1.3 - 1.5	-
Water absorption (23°C/satur.)	ISO 62	%	3.7 - 4.3	-