

TECHNICAL DATA SHEET

Enplury® PARA K5050

Enplury PARA K5050 is a 50% glass fiber reinforced polyarylamid with very high stiffness and strength, even in conditioned state

Applications: Components with high dimensional stability, independent from moisture content. Enplury PARA K5050 is an alternative for aluminium and zinc diecast alloys.

Properties	Test method	Unit	Value	
			d.a.m.	cond.
Tensile modulus (1 mm/min)	ISO 572-1/2	MPa	19000	19000
Stress at break (5 mm/min)	ISO 572-1/2	MPa	310	280
Strain at break (5 mm/min)	ISO 572-1/2	%	2,3	2,3
Flexural modulus (2 mm/min)	ISO 178	MPa	20000	20000
Flexural strength (2 mm/min)	ISO 178	MPa	445	410
Charpy impact strength (23°C)	ISO 179-1/1eU	kJ/m ²	100	100
Charpy notched impact strength (23°C)	ISO 179-1/1eA	kJ/m ²	19	18
Melting Temperature	DIN EM 11357-1	°C	-	238
Temp. of deflection under load HDT/A	ISO 75	°C	-	230
Temp. of deflection under load HDT/C	ISO 75	°C	-	200
Flammability acc. UL 94 (1.6 mm)	UL 94	Class	HB	-
Density (23°C)	ISO 1183	g/cm ³	1,65	-

TECHNICAL DATA SHEET

Enplury® PARA K5050

Content minerals / reinforcement	ISO 1172	-	50	-
Humidity absorption (70°C/62 % r.h.)	ISO 1110	%	0,8	-
Water absorption (23°C/satur.)	ISO 62	%	3.2 - 3.7	-
Processing shrinkage, flow	ISO 294-4	%	0.1	-
Processing shrinkage, transverse	ISO 294-4	%	0.3	-