

## E2000CF30

Type : 30% Carbon fiber-reinforced

Identification mark : PA66-CF30

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	250	190	
	Tensile stress at break					
	Tensile modulus		MPa	20000	14100	
	Tensile strain at yield		ISO 178	%	2	2
	Tensile strain at break					
	Flexural strength		ISO 178	MPa	355	250
	Flexural modulus			MPa	19000	13100
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m <sup>2</sup>	12	15
	Charpy impact strength	notched	ISO 179/1eA			
	Rockwell Hardness	R Scale	ISO 2039-2	—	120	108
THERMAL	Thermal conductive	Planar direction	ISO 18755	W/(m·K)		
		Thickness direction				
	Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10 <sup>-4</sup> /°C	0.1	
Temperature of deflection under load	1.8MPa	ISO 75-1,-2	°C	250		
	0.45MPa			260		
ELECTRICAL	Volume resistivity	IEC 62631-3-1	Ω·m	10 <sup>2</sup>		
	Electric strength	t:1mm	IEC 60243-1	kV/mm		
	Relative permittivity	10 <sup>6</sup> Hz	IEC 62631-2-1	—		
	Dissipation factor	10 <sup>6</sup> Hz	IEC 62631-2-1	—		
	Comparative tracking Index		IEC 60112	—		
OTHERS	Density	ISO 1183	g/cm <sup>3</sup>	1.21		
	Water absorption	23°C,50%RH	ISO 62	%	2.0	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	0.6	
		transverse			1.1	
	MVR	275°C,5kg	ISO 1133	cm <sup>3</sup> /10min		
	Flammability	mmt	UL94 File No.E47924	—		
Mold conditions	Cylinder Temperature		°C	270-295		
	Mold temperature		°C	80-120		

The data listed here are typical of average lots and not guaranteed values .