Nylon66

E2000G45

Type : 45% Glass fiber-reinforced

Identification mark ：PA66-GF45

	Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)
MECHANICAL	Tensile stress at yield Tensile stress at break		ISO 527-1,-2	MPa	 235	 185
	Tensile modulus			MPa	14200	10100
	Tensile strain at yield Tensile strain at break			%	 2	 3
	Flexural strength		ISO 178	MPa	350	270
	Flexural modulus			MPa	13400	9500
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m^2		
	Charpy impact strength	notched	ISO 179/1eA		18	24
	Rockwell Hardness	R Scale	ISO 2039-2	—		
THERMAL	Thermal conductive	Planar direction Thickness direction	ISO 18755	W/(m·K)		
	Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10^{-4}/°C		
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	260 260	
ELECTRICAL	Volume resistivity		IEC 62631-3-1	Ω·m	10^{12}	
	Electric strength	t:1mm	IEC 60243-1	kV/mm		
	Relative permittivity	10^6Hz	IEC 62631-2-1	—		
	Dissipation factor	10^6Hz	IEC 62631-2-1	—		
	Comparative tracking Index		IEC 60112	—		
OTHERS	Density		ISO 1183	g/cm^3	1.51	
	Water absorption	23°C,50%RH	ISO 62	%	1.2	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	0.2 0.8	
	MVR	275°C,5kg	ISO 1133	cm^3/10min	15	
	Flammability	0.84mmt	UL94 File No.E47924	—	HB	
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 .