

E2000G15

Type : 15% Glass fiber-reinforced

Identification mark : PA66-GF15

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	125	85	
	Tensile stress at break					
	Tensile modulus		MPa	6800	4400	
	Tensile strain at yield		%	4	6	
	Tensile strain at break					
	Flexural strength	ISO 178	MPa	220	135	
	Flexural modulus		MPa	6000	3800	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	6	13
	Charpy impact strength	notched	ISO 179/1eA			
	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	0.4	
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	235	
ELECTRICAL	Volume resistivity		IEC 62631-3-1	Ω·m	10 ¹²	
	Electric strength	t:1mm	IEC 60243-1	kV/mm		
	Relative permittivity	10 ⁶ Hz	IEC 62631-2-1	—		
	Dissipation factor	10 ⁶ Hz	IEC 62631-2-1	—		
	Comparative tracking Index		IEC 60112	—		
OTHERS	Density		ISO 1183	g/cm ³	1.24	
	Water absorption	23°C,50%RH	ISO 62	%	1.9	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	0.6	
		transverse			1.5	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min	50	
	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 .