

Nylon6

N2002G



Type : Thermal conductive grade,Insulation type

Identification mark : PA6+GF+MD

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	102	80	
	Tensile stress at break					
	Tensile modulus					
	Tensile strain at yield	ISO 178	%	2.5	3	
	Tensile strain at break					
	Flexural strength	ISO 178	MPa	180	130	
	Flexural modulus		MPa	13000	9000	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	7	8
	Charpy impact strength	notched	ISO 179/1eA			
	Rockwell Hardness	R Scale	ISO 2039-2	—		
THERMAL	Thermal conductive	Planar direction	W/(m·K)	2.5	2	
		Thickness direction		1	0.8	
	Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10 ⁻⁴ /°C	1.8 5.60	
Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	210		
ELECTRICAL	Volume resistivity	IEC 62631-3-1	Ω·m	>10 ¹³	10 ¹¹	
	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	1.72		
	Water absorption	23°C,50%RH	ISO 62	%	1.1	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	0.4	
		transverse			0.4	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min		
Flammability		UL94 File No.E47924	—			
Mold conditions	Cylinder Temperature		°C	260-290		
	Mold temperature		°C	80-120		

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

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