

EN1012G30

Type : 30% Glass fiber-reinforced, flame retardant (UL94 V-0, Halogen free)

Identification mark : PA66-GF30FR(40)

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	160	120	
	Tensile stress at break					
	Tensile modulus		MPa	11800	9300	
	Tensile strain at yield		%	3	3	
	Tensile strain at break					
	Flexural strength	ISO 178	MPa	255	190	
	Flexural modulus		MPa	11100	8100	
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	9	10
	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		
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	250	
ELECTRICAL	Volume resistivity		IEC 62631-3-1	Ω·m	10 ¹³	
	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	—	600	
OTHERS	Density		ISO 1183	g/cm ³	1.44	
	Water absorption	23°C,50%RH	ISO 62	%	1.2	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	0.3 0.8	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min		
	Flammability	0.8mmt	UL94 File No.E47924	—	V-0	
	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 .