

A1022GFL

Type : 30% Glass fiber-reinforced, high flowability

Identification mark : PA6-GF30

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
MECHANICAL	Tensile stress at yield	ISO 527-1,-2	MPa	170	110	
	Tensile stress at break					
	Tensile modulus		MPa	10000	6100	
	Tensile strain at yield		ISO 178	%	3	5
	Tensile strain at break					
	Flexural strength		ISO 178	MPa	265	165
	Flexural modulus			MPa	8600	5100
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	70	85
	Charpy impact strength	notched	ISO 179/1eA		11	19
	Rockwell Hardness	R Scale	ISO 2039-2	—	120	107
THERMAL	Thermal conductive	Planar direction	W/(m·K)			
		Thickness direction				
	Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10 ⁻⁴ /°C	0.3	
Temperature of deflection under load	1.8MPa	ISO 75-1,-2	°C	205		
	0.45MPa			220		
ELECTRICAL	Volume resistivity	IEC 62631-3-1	Ω·m	10 ¹³	10 ¹¹	
	Electric strength	t:1mm	IEC 60243-1	kV/mm	42	40
	Relative permittivity	10 ⁶ Hz	IEC 62631-2-1	—	3.3	3.6
	Dissipation factor	10 ⁶ Hz	IEC 62631-2-1	—	0.022	0.12
	Comparative tracking Index		IEC 60112	—		
OTHERS	Density	ISO 1183	g/cm ³	1.36		
	Water absorption	23°C,50%RH	ISO 62	%	2.0	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	0.2	
		transverse			0.7	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min	70	
Flammability	0.86mmt	UL94 File No.E47924	—	HB		
Mold conditions	Cylinder Temperature		°C	250-270		
	Mold temperature		°C	80-120		

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