

A1030GFL

Type : 30% Glass fiber-reinforced

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	9900	6000
	Tensile strain at yield			%	3	5
	Tensile strain at break					
	Flexural strength		ISO 178	MPa	260	160
	Flexural modulus			MPa	8500	5000
	Charpy impact strength	unnotched	ISO 179/1eU	kJ/m ²	70	85
	Charpy impact strength	notched	ISO 179/1eA		13	19
	Rockwell Hardness	R Scale	ISO 2039-2	—	120	107
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	0.3	
	Temperature of deflection under load	1.8MPa 0.45MPa	ISO 75-1,-2	°C	205 220	
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	—	550	
OTHERS	Density		ISO 1183	g/cm ³	1.36	
	Water absorption	23°C,50%RH	ISO 62	%	2.0	
	Mold shrinkage	flow transverse	UNITIKA Method 3mmt	%	0.2 0.7	
	MVR	275°C,5kg	ISO 1133	cm ³ /10min	55	
	Flammability	0.75mmt	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 .