

# A1030GFLTF

Type : 30% Grass fiber-reinforced,fluoroplastic-added

Identification mark : PA6+PTFE-GF30

Property	Test conditions	Standard	Unit	DAM	Conditioned (50%RH)	
<b>MECHANICAL</b>	Tensile stress at yield	ISO 527-1,-2	MPa	145	105	
	Tensile stress at break					
	Tensile modulus		%	8400	5300	
	Tensile strain at yield					
	Tensile strain at break	MPa	235	145		
	Flexural strength					
	Flexural modulus	MPa	7000	4500		
	Charpy impact strength				unnotched	ISO 179/1eU
	Charpy impact strength	notched	ISO 179/1eA			
	Rockwell Hardness	R Scale	ISO 2039-2	—		
<b>THERMAL</b>	Thermal conductive	Planar direction	ISO 18755	W/(m·K)		
		Thickness direction				
	Coefficient of linear thermal expansion	flow transverse	ISO 11359-2	10 <sup>-4</sup> /°C	0.3	
Temperature of deflection under load	1.8MPa	ISO 75-1,-2	°C	205		
	0.45MPa			215		
<b>ELECTRICAL</b>	Volume resistivity	IEC 62631-3-1	Ω·m	10 <sup>13</sup>	10 <sup>11</sup>	
	Electric strength	t:1mm	IEC 60243-1	kV/mm		
	Relative permittivity	10 <sup>6</sup> Hz	IEC 62631-2-1	—		
	Dissipation factor	10 <sup>6</sup> Hz	IEC 62631-2-1	—		
	Comparative tracking Index		IEC 60112	—		
<b>OTHERS</b>	Density	ISO 1183	g/cm <sup>3</sup>	1.43		
	Water absorption	23°C,50%RH	ISO 62	%	1.8	
	Mold shrinkage	flow	UNITIKA Method 3mmt	%	0.2	
		transverse			0.6	
	MVR	275°C,5kg	ISO 1133	cm <sup>3</sup> /10min		
	Flammability	mmt	UL94 File No.E47924	—		
<b>Mold conditions</b>	Cylinder Temperature		°C	250-270		
	Mold temperature		°C	80-120		

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